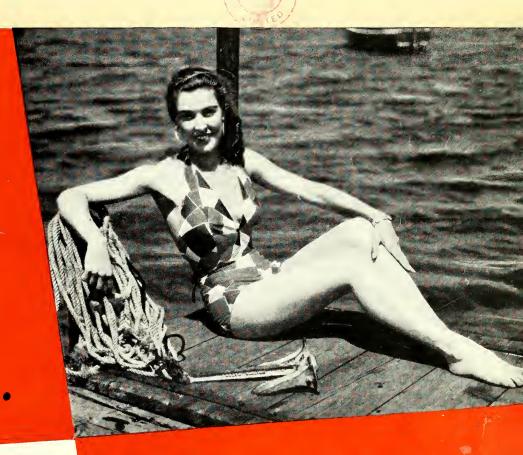
Menterse James.

# CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JULY 7 1956





All orders for SIX or more outers of ONE DOZEN tubes of Acriflex will be charged at the rate of eleven tubes per outer, thus giving you one tube free in every dozen. Orders may be made up of any number of outers of either 1/6d or 2/6d size. Carriage will be paid on orders of £5 or over.

THE FERIOD OF THIS OFFER WILL BE LIMITED.

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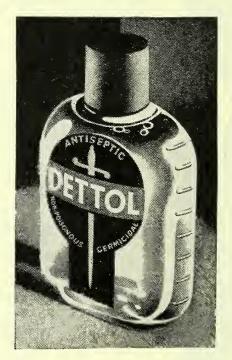
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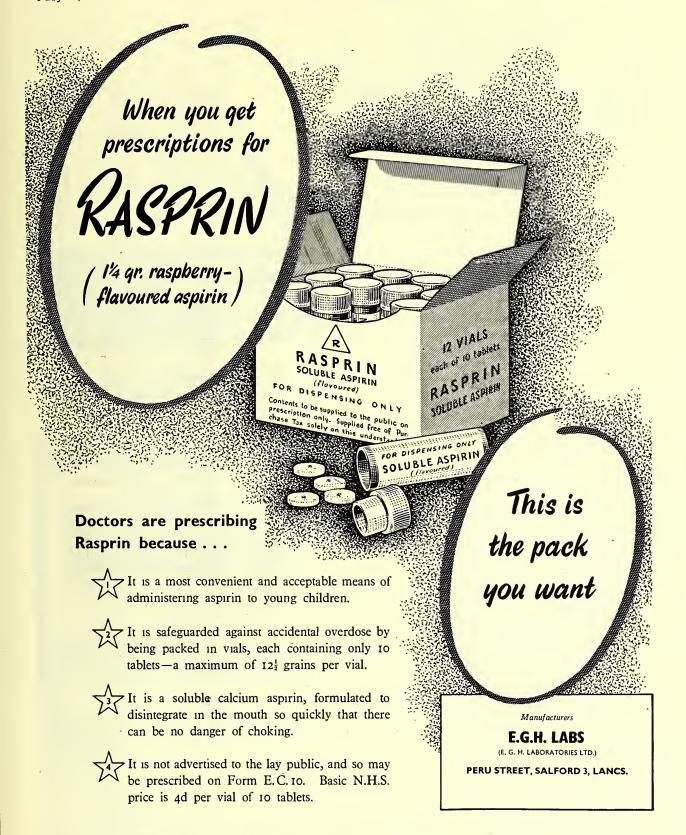
unique degree. It is in constant use in almost all of our hospitals, maternity homes and clinics. It is the antiseptic most frequently prescribed by doctors for their patients. It is also the antiseptic most frequently chosen by them for the protection of their own homes.

There could be no testimony more eloquent and sincere to the value of Dettolin mankind's war against sepsis.

Dettol brings a remarkable combination of qualities to antiseptic practice. It is non-poisonous and non-corrosive yet at the same time deadly to germs.

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### IF YOUR CUSTOMERS

just ask for Warfarin Rat or Mouse Poison

### SELL THEM

and sell the best.

Repeated recommendations of Rodine means repeated profits for you.

Available as Ready-to-Use or Concentrate. THOMAS HARLEY LTD., RODINE WORKS, PERTH, SCOTLAND

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elective cardiac action

Each tablet contains:

Phenylethylbarbiturate of Quinidine: 0. 10 gm. A new, crystalline salt of high purity, stable and with definite physical characteristics.

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### TABLETS FOR PERIOD PAINS

### .. Important Announcement

As from the beginning of August, the old style will be replaced with an entirely new Pack. This consists of "Seal-tite" strips in an attractive wallet which will retail at 1/11d. each. Trade price 12/8d. per dozen.

CHANGE OF PRICE

The retail price of the present bottle pack will be increased to 1/11d. on the 9th July, 1956, but the trade will have the opportunity of purchasing at the old price of 11/8d. per dozen until stocks are exhausted. Chemists will be enabled to clear old stocks before the new pack is introduced to the public and also secure an additional profit of 2d. on each sale.

### LARGE SCALE NATIONAL ADVERTISING

Commences on September 15th, but as a special introductory stock offer, all orders will be invoiced at 11/8d. per dozen until September 29th.

Chemists who stock up during the six weeks period will obtain this substantial increase in profits and be ready for a greatly increased demand.

Southon Laboratories Limited, 88 Upper Richmond Road, Putney, S.W.15.



### Perennial Profit

From the chemist's point of view, the advantage of stocking a laxative is that

the demand for it is continuous—not seasonal. When the laxative is as efficacious and

well known as Agarol, it is indeed a profitable

venture. The gentle yet undeniable persuasiveness

of Agarol makes it very useful for many types of

patient . . . elderly and very young people, pregnant

women and sufferers from constipation and haemorrhoids.

Agarol is a preparation that you can supply with every confidence whenever you are asked to recommend an aperient. It is suitable for use in any age.

No Warner preparation has ever been advertised to the public

Agarol is available in bottles containing 6 and 14 fluid ozs, at 3/9d. and 7/5d.; list price per dozen 27/- and 54/- respectively, excluding Purchase Tax; for dispensing only, in tax free bottles of 80 fluid ozs, at 18/6d. each.

### AGAROL

P.A.T.A



WILLIAM R. WARNER & CO. LTD., Power Road, London, W.4



News of an expanding market that should be of interest to every chemist

## Quite frankly, I have been amazed at the sales of

Good-Go'' says Mr. G. S. Laurenson,
Managing Director of Golden Ltd.,
distributors of L'Oreal Products.

The success of Color-Glo and the great volume of sales which has accompanied its launching, make it clear that here at last is a hair colouring product that is changing the attitude of British women towards hair colouring. Such a change of attitude will inevitably bring with it a great increase in the chemist's turnover and profit.

Why has Color-Glo been so successful?

Firstly I would say, because it is so simple and safe to use.

Secondly because it offers "controlled colour"there's no risk of extreme results.

Thirdly, it gives a *natural* colour — a richness of colour that blends with and enhances a woman's own natural colouring.

Fourthly, because it gives a lasting colour that lasts through 6 to 8 shampoos.

Finally, Color-Glo is heavily advertised (in full colour whenever possible) in the mass circulation women's weeklies. This is directed at the woman who has never dared to beautify her hair with colour before -because no product so easy to use as Color-Glo has ever been offered before.

Color-Glo will go on widening the market for hair colouring—and go on breaking sales records. All chemists will be well advised to keep an eye on their Color-Glo stocks. We know that when a woman makes up her mind to try a particular Color-Glo shade, she will go a long way to find it. When Color-Glo enthusiasts come into your shop, let them see Color-Glo on your counter.

Color-Glo is made in six shades:

MOLTEN GOLD · GOLDEN CHESTNUT · AUBURN DEEP AUBURN · HONEY BROWN · DOVE GREY

Retail price 4/6d per bottle Trade price 22/6d per dozen plus 90% tax



GOLDEN LIMITED, 7 GROSVENOR STREET W.I. HYD. 1671/6

Trade enquiries for the Republic of Ireland should be addressed to: LILMAR PHARMACEUTICALS LTD., SANTRY, DUBLIN

These speciality products are widely advertised in the medical journals

These products are being specially detailed by all our representatives and extensively advertised in all the medical journals.

### COLLUBARB TABLETS-

for rapid relief in dyspepsia, hyperchlorhydria and peptic ulcer.

EACH TABLET CONTAINS
ALUMINIUM HYDROXIDE gr. 5
PHENOBARBITONE gr. 1/4
ATROPINE SULPHATE gr. 1/500

Presented in cartons of 24 2/3 each cartons of 100 5/- ,, alcons of 500 17/3 ,,

### ERGO-RONDASE— an intramuscular

preparation to reduce the risk of post-partum haemorrhage.

HYALURONIDASE-EVANS 330 I.U. WITH INJ. ERGOMETRINE MALEATE. B.P., 0.5 m.g. TRADE PRICE
Presented in dual packs containing
1 vial of each component 3/4 each
and in boxes containing
six vials of each component. 18/6 "

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the sterile plastic spray-dressing. An effective replacement for conventional dressings.

NOW IN 100 ml.
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GENERAL PRACTITIONER.

Presented in spray containers of 100 ml. 15/6 each and 300 ml. 24/- ,, bottles of 50 ml. 7/4 ,,

### **RONDASE**— the spreading factor.

AN AID TO LOCAL ANAESTHESIA.

Presented in R.C.B. containing 1000 i.u.
Hyaluronidase Evans
TRADE PRICE
Boxes of 6 R.C.B. 14/- each
,, "25 R.C.B. 50/- each

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Agents in Glasgow: The New Apothecaries Co. Ltd.

# SANIZAL MUSU IOP SIZE

Here's the new Sanizal pack you've been asking for!

SANIZAL is the most popular and the most advertised coal-tar disinfectant. Everyone can afford the new 10d. size and for those who prefer, there is still the 1/2d. size.

SANIZAL advertisements are appearing *now* in the national dailies and in the Radio Times—and this big campaign reaches its peak in the summer months.

Take advantage of this opportunity to increase your sales of Sanizal by ordering supplies of the 10d. size now to meet the big summer demand.

TRADE PRICE 7/6 PER DOZEN



Show them both, the 1/2d. and the new 1od. bottle of SANIZAL. This attractive display material is available on request.

The SANIZAL crowner

The SANIZAL dispenser-bright, efficient, compact!

## LOOK! YOU'LL SELL EVEN MORE Meet in this new **DOUBLE-ECONOMY SIZE TIN**



IMPORTANT - Meet price changes

We regret that because of steeply rising raw material costs of this exceptionally high-quality product, from July 8th the price of Meet will be as follows: Meet handy tin RETAIL 1/1 . Meet double-economy size tin RETAIL 1/11

YOUR PERCENTAGE MARGINS REMAIN UNCHANGED

Meet - MEAT CHUNKS FOR DOGS - MADE IN MELTON MOWBRAY

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have pleasure in announcing that with effect from

ist JULY 1956

a new revised range of



products is being marketed in association with our Principals

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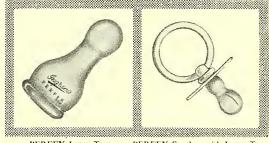
to your address and charged through YOUR USUAL WHOLESALER E.G. 6 Boxes of Suppos. Bism. Subgall. 6 Boxes of Suppos. Bism. Subgall. Co. Manufactured and Packed in the Laboratories of:

MANSFIELD ROAD, DERBY Tel. 48266 (4 lines) and at GROSVENOR STREET, ASHTON-U-LYNE Tel. 2816 (3 lines).



Two more lines with a name every mother knows and trusts. Each teat is packed in a hygienic cellophane envelope, and mounted on attractive display cards.

There's a generous margin of profit for both wholesale and retail trades. Prices are competitive. Each teat is tested to the high standard that mothers have come to expect of Ingram's products. They'll sell, and go on selling. Stock up now!



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### **PABRACORT**

(HYDROCORTISONE SNUFF)



### FOR HAY FEVER

A preparation of hydrocortisone acetate in a specially prepared snuff base. Clinical trial has confirmed the value of Pabracort insufflations in the treatment of HAY FEVER. The use of the Pabracort Insufflator is essential for satisfactory administration.

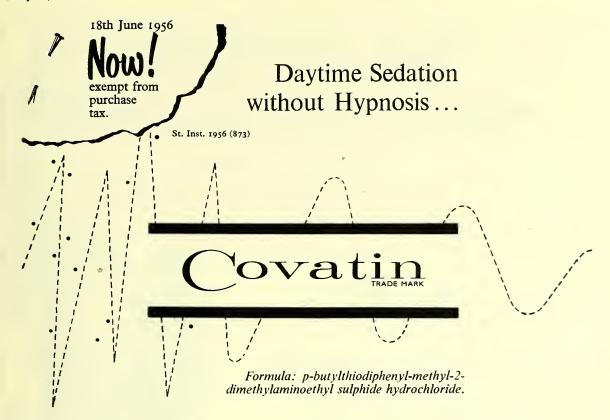
Each capsule contains 15 mgm. of hydrocortisone acetate and 85 mgm. of base, and the contents of a Pabracort capsule are administered by means of the Pabracort Insufflator at 3-4 hourly intervals over a period of 24 hours. Literature on request.

REFERENCES: Lancet (1956) i., 537

Packings: Pabracort outfit. (Comprising 10 capsules and insufflator). Capsules: 10, 25 and 100

PAINES & BYRNE LTD., PABYRN LABORATORIES, GREENFORD, ENGLAND

Telephone: Perivale 1143 (5 lines) Telegrams: Glands Greenford



Covatin, the new anti-anxiety drug promotes tranquillity and relief from tension without causing sleep or dulling of alertness. It is designed to meet the requirement of general practice.

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The effectiveness of Covatin has been proved by comprehensive clinical trials carried out during the past 2 years.

### BACKED BY A FULL PROGRAMME OF ETHICAL PUBLICITY

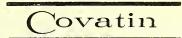
Covatin is being brought to the notice of the medical profession by advertisements in the professional press and by the mailing of literature to doctors throughout the country. Their prescription for Covatin will soon be coming to you. Be ready to meet this demand.

#### PACK

Available as 50 mg. sugar-coated tablets in bottles of 50 and 500

### COVATIN IS EXEMPT FROM PURCHASE TAX PRICE

50's 10/- each, list price 80/- per dozen 53/4 each, list price 640/- per dozen





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PERIHEL LTD. are pleased to announce that due to increased Sales and Production, it is now possible to

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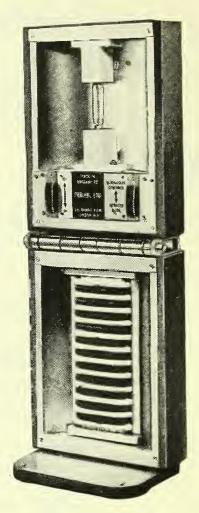
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Ask for details regarding credit of price difference, on existing stocks.





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Extract of Cascara Sagrada Liquid B.P.
Elixir of Cascara Sagrada B.P.

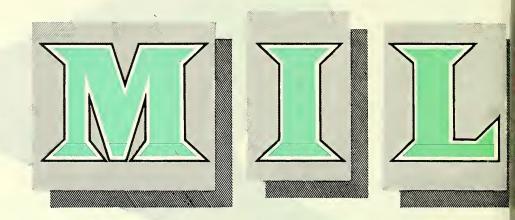


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Telephone: CLErkenwell 1000

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### New, Safe, Powerful Tranquillizer . .

With these important advantages

Selective action in anxiety and tension states

Valuable sedative, hypnotic and muscle-relaxing properties.

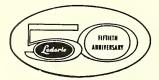
Absence of toxicity . . . negligible side effects

Relaxes the patient for natural sleep without narcosis

Muscle relaxant in muscle spasm, pain and stiffness

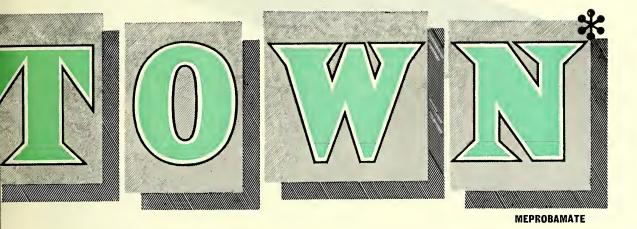
Has no specific effect on blood pressure

No influence on autonomic regulatory mechanisms



EDERLE LABORATORIES DIVISIO

### presents



### f far-reaching value in medical practice

Laboratory and clinical trials show MILTOWN to be the most remarkable tranquillizing drug yet discovered. Published reports on its initial success have been followed by its widespread adoption by doctors throughout America for restoring tranquillity in tension states, anxiety, stress and allied conditions. MILTOWN is now made available in Great Britain by Lederle.

Its value in the above conditions is due to an easing of the patient's anxiety tension, a lowering of irritability and its pronounced muscle relaxant action. It calms the patient for natural sleep. It has given a high proportion of good results in terms of relief of symptoms and a return to social productivity. It has proved effective in patients who have failed to respond to barbiturates and other conventional tranquillizers.

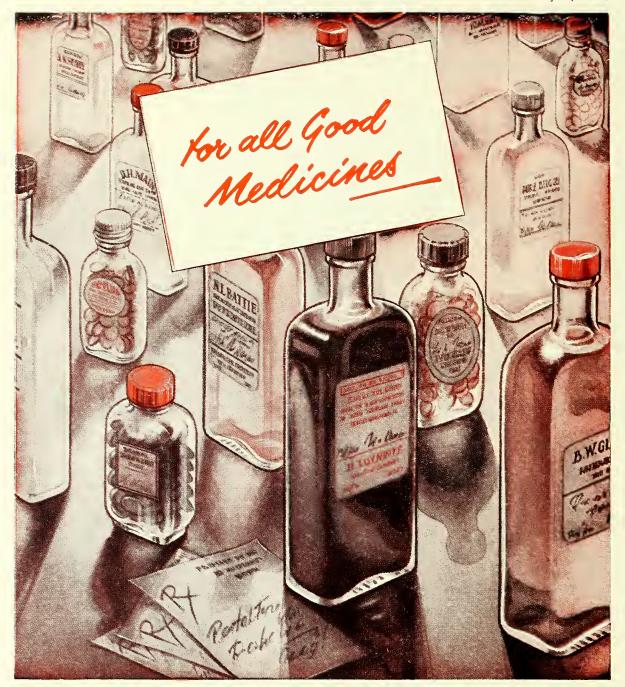
MILTOWN is fully active by mouth, shows a significant absence of toxicity and almost complete freedom from side effects. Among the conditions in which it has given good results are: Tension states, acute and chronic anxiety states, menstrual stress, tension headache, alcoholism, behaviour problems in children, hysteria and depression. In neuropsychiatric cases it has restored or improved patients who were delusioned, assaultive, noisy, disoriented and hallucinated.



(2 methyl-2-n-propyl-1, 3 propanediol dicarbamate) is supplied in tablets of 400 m.g. for oral use. Bottles of 50.

\*TRADE MARK

Cyanamid PRODUCTS LTD. LONDON, W.C.2











### UNITED GLASS BOTTLE MANUFACTURERS LIMITED

8 LEICESTER STREET, LONDON, W.C.2

Telephone: GERRARD 8611 (18 Lines)

Telegrams: UNGLABOMAN, LESQUARE, LONDON



Get fast sales with LOCKWOODS Vitamin "C" health drinks

## FREE SAMPLE OFFER

Increase your sales of Lockwoods—by taking part in this free trial scheme. Place your order now for 3 dozen bottles plus 3 dozen free samples: choose from dozen lots of Raspberry, Orange or Pineapple. The show-card illustrated here will be sent to you with your order. It explains that each purchaser of a full-size bottle also receives a free trial bottle; and that, if he doesn't enjoy his free sample, he can return the full-size bottle—and his money will be refunded.

Few of your customers will resist a free trial of something as exciting as Lockwoods. And our experience of consumer acceptance of Lockwoods shows that no-one is likely to return the full-size bottle to you. If anyone does, please co-operate by refunding the full purchase price, provided the seal is unbroken: if you wish, you can then hand the returned bottle to our representative for credit.

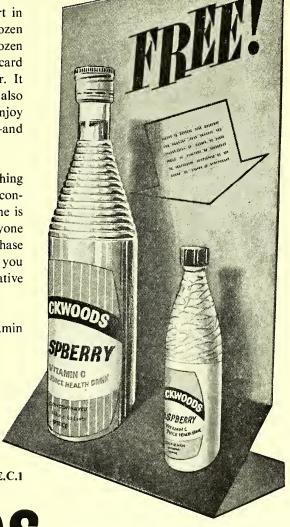
The retail price of Lockwoods concentrated Vitamin "C" health drinks is 3/6 per bottle.

#### Trade Prices:

1 to 2 dozen—33/5 per dozen nett 3 to 5 ,, —31/9 ,, ,, ,, 6 to 11 ,, —31/5 ,, ,, ,, 12 doz. or more—30/- ,, ,, ,,

All orders and enquiries to sole agents:

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### **LOCKWOODS**

concentrated Vitamin "C" health drinks

MANUFACTURED BY: EASTERN COUNTIES PRESERVES (1940) LTD · LONG SUTTON · LINCS.



By Appointment to H.M. The Queen, Chemists

### Savory & Moore



### VERTEBRÆ!

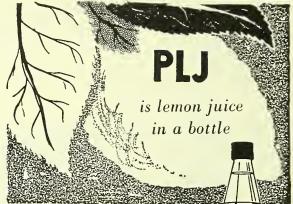
... the facility of buying Savory & Moore high quality Pharmaceutical Products locally is not without its attractions to "more discerning" customers who form the backbone of your goodwill.

Bonus of one to the dozen on the following specialities: Dr. Jenner's Medilax, Dentural and Quinasp. Free Van Delivery in Home



Savory & Moore

60 WELBECK STREET · LONDON · W.I



The natural, undiluted, very pleasant juice of full-ripened Sicilian lemons. Many thousands of women are now drinking PLJ regularly for the sake of their health and figure. Once in the home, they use it for many other purposes. To make real lemonade. To dress salads. To rinse hair. And so on. The lemon is a versatile fruit—and anything a lemon can do PLJ can do better!

At 2/6 a bottle (4/- for the economy size) PLJ is a good purchase. That's why sales are searing.



PLJ CROYDON

@ 6

### Good name Good profits

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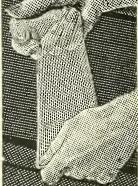
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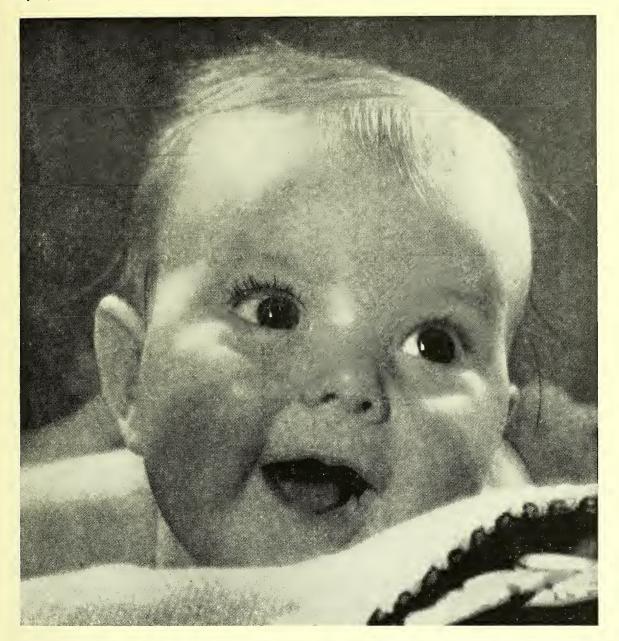




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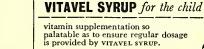
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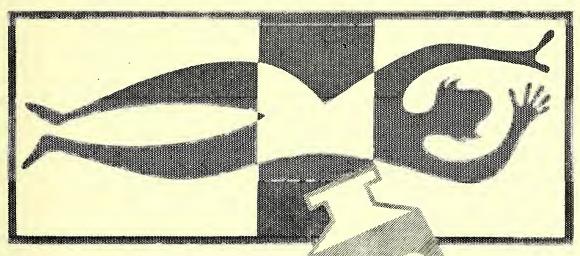
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The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 166

July 7, 1956

No. 3985

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Volume 166

JULY 7, 1956

No. 3985

### Container Allowance Settled

### INCREASED BY 0.3d. FROM NOVEMBER 1, 1955

A SETTLEMENT has been reached in the claim of chemist contractors for an increase in the allowance made for containers provided in dispensing National Health Service prescriptions. The new rate per prescription is 1.55d. (against 1.25d.), and the increase is back-dated to November 1, 1955.

A National Pharmaceutical Union circular giving the information to Pharmaceutical Committee secretaries states that "the extent of ante-dating of this settlement" is "entirely without prejudice to the claim for ante-dating of the oncost and dispensing-fee claim." To any individual contractors who may consider payments involving second places of decimals to be undignified, the N.P.U. points out that each 0.05d. per prescription represents an annual cost to N.H.S. funds of not less than £40,000.

A statement about the present state of claim for increased oncost and dispensing fees is published on p. 4.

### Public Pharmacists

OFFICERS ELECTED

AT a meeting of the council of the Guild of Public Pharmacists on June 30, the following officers were elected for 1956-57:—President, Miss E. P. Button; Vice-president, Mr. C. H. Preston Robinson; Treasurer, Mr. A. M. Mees; Assistant Secretary, Miss M. D. Smith; Secretary, Mr. S. Powlson, 105A

Albemarle Road, Beckenham, Kent. Members are requested to note that as Mr. F. J. Whelan will shortly be leaving hospital pharmacy, all inquiries on salaries and conditions of service should be sent to Mr. H. S. Grainger, Pharmaceutical Department, Westminster Hospital, London, S.W.1.

### Rating Revaluation

DELEGATION MEETS MINISTER

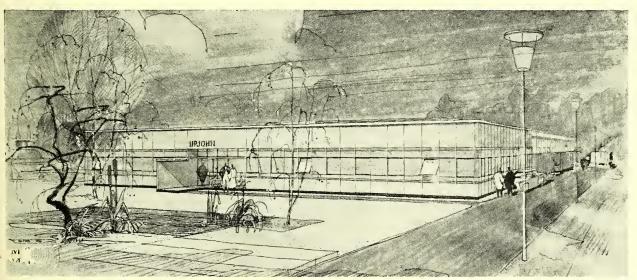
A DEPUTATION from the National Chamber of Trade met Mr. Duncan Sandys (Minister of Housing and Local Government) on June 27 (see C. & D., June 23, p. 536), to discuss the effects of the recent rating revaluations. The deputation was representative of all sections of retail trade. The following statement was issued after the ninetyminute meeting: "... The deputation stressed their concern at the increase in the share of the rate burden which shopkeepers were being called upon to bear. The Minister in reply assured them that the points they had made would be considered in the review which the Government have already

promised to undertake when the effects of revaluation can be fully measured. The Government hope to announce their conclusions during the year."

### **Australian Imports**

MORE CUTS ANNOUNCED

THE further import restrictions introduced by Australia on July 1, are designed to cut the country's imports by a further £32 millions in a full year. Because of the normal time-lag and the difficulty of making the cuts effective quickly, the actual reduction in the next twelve months is likely to be only about half that figure. There are considerable changes in the details of licensing, the effect of which should be to adjust to varying degrees the level of imports for different classes of goods while producing overall a further reduction in overseas expenditure. No distinction will be drawn between goods in category A (certain "more-essentials") and category "Admin. x" (other more-essentials); and in these the quotas will no longer be a uniform percentage of past imports but will vary according to the commodity concerned, in the same way as category "Admin. x" has been operated up to now. Category A now includes a number of extra items previously in category B ("less-essentials") amongst which are: Antimony; sodium carbonate, bicarbonate and silicate; lactose; bacteriological products and sera; plasters and medicated wool; and cameras for amateur use. Quotas for those goods will be based on imports during 1954-55, but it is not yet known at what levels.



WORK STARTS ON NEW DRUG WORKS: Construction has started on a five-acre site in Crawley, Sussex, of a one-story structure for Upjohn of England, Ltd., London. The building will provide 30,000 sq. ft. of space.

### A Company's Guests

PHARMACY REPRESENTED AT PARTY

A PARTY at which John Wyeth & Bro., Ltd., entertained eminent representatives of the pharmaceutical, medical, surgical and veterinary professions, as well as of other manufacturers and associates was held at the Apothecaries' Hall, London, on June 28. The guests were received by Mr. A. J. C. Gormley (chairman and managing director of the company) and Mrs. Gormley, and the master, registrar and senior warden of the Society of Apothecaries were present wearing their insignia of office. Pharmaceutical guests included Dr. K. R. Capper (editor of the Pharmaceutical Society's scientific publications), Dr. H. Davis (chief pharmacist, Ministry of Health); Messrs. T. C. Denston (secretary, British Pharmacopæia Commission), A. Aldington, and H. Noble (chairman and secretary, National Pharmaceutical Union), G. E. Mann (president, Chemists Federation), H. E. Chapman (secretary, Proprietary Articles Trade Association), A. Duckworth (secretary, Association of British Pharmaceutical Industry), H. G. Lazell and W. G. Hollis (vice-chairman and secretary, Proprietary Association of Great Britain), and Dr. A. H. Beckett (school of pharmacy, Chelsea Polytechnic, London).

### Scottish Executive

ELECTION OF OFFICERS

AT a meeting of the Executive of the Scottish Department of the Pharmaceutical Society held in Edinburgh on June 27, Messrs. W. A. Park and J. B. Grosset were unanimously re-elected Chairman and Vice-chairman, respectively, of the Executive. The chairman referred with regret to the death of Mr. Thomas Wilson, F.P.S., Burntisland (C. & D., June 30, p. 565). The newly elected members of Executive (see C. & D., June 23, p. 535), were welcomed. chairman reported that a prescription book had been received from Miss M. Gauld, Kirkcaldy, dated about 1853. It was reported that the late Mrs. E. N. Boyd, an annuitant of the Society's Benevolent Fund, had bequeathed to the Scottish Department of the Society a legacy of £200. It was agreed that the centenary of the birth of J. Rutherford Hill would be suitably commemorated by holding a special evening meeting of the Scottish Department, at which a memorial lecture would be given. It was agreed that the secretary of the Edinburgh Branch should be asked to co-operate in the organisation of the

### Leeds Group Purchasing

ANNUAL MEETING OF COMMITTEE

AT the third annual meeting of the Leeds Area Pharmaceutical Inter-Group Purchasing Committee on June 21, MR. A. SUTCLIFFE (chairman of the committee) said that nine hospital groups were now participating in contracts placed by the committee. Arrangements had been made for the purchase on a quarterly basis of a wide variety of drugs, galenicals and pharmaceutical preparations at competitive

prices. Thirty-eight contracts had been taken out during the year, twenty-eight being renewals of previous contracts and ten the result of new investigations. Mr. Sutcliffe said that the scheme could be usefully extended to other groups in the area, and that as well as providing financial benefit by purchasing from joint contracts, attendance at the committee meetings afforded pharmacists the opportunity of exchanging ideas and information on topics of general professional interest. All officers were re-elected for the ensuing year.

### Symposium on Yeast

INDUSTRIAL CHEMISTS TO CONFER

A SYMPOSIUM on "Recent Studies in Yeast and Their Significance for Industry" is being arranged jointly by the Dublin Section and the Food and Microbiology Groups of the Society of Chemical Industry, in the Rupert Guinness Hall, Dublin, on September 17 and 18. The programme includes papers by several well-known authorities, and a visit to the brewery of Arthur Guinness, Son & Co. (Dublin), Ltd., The Biochemical Society, which is meeting in Dublin on September 14 and 15, is arranging a local sightseeing tour for September 15 and a more extensive tour for September 16 if there are enough participants; members attending the symposium can join those tours. Early booking of hotel accommodation is advisable and can be arranged by writing to the secretary of the Dublin Section, Dr. A. K. Mills, Arthur Guinness, Son & Co. (Dublin), Ltd., chemists' laboratories, St. James's Gate. Dublin.

#### **Presentation to President**

DINNER IN MANCHESTER

A PRESENTATION dinner to Mr. H. Steinman (then retiring president of the Pharmaceutical Society) was held in Manchester on May 30 by the Manchester and Salford Branch of the Society. A bouquet was presented to Mrs. Steinman by Miss I. F. A. Lewis (president, Manchester Pharmaceutical Association) and later in the evening a presentation of a suite of cut glass was made to Mr. and Mrs. Steinman by Mr. A. E. Thorpe (secretary of the Branch) on behalf of members of the Branch, Association and friends, more than sixty of whom attended the dinner.

### **Buyers' Course**

OPPORTUNITY TO STUDY JOB

A SENIOR buyers' course is being held by the Purchasing Officers' Association at Ashorne Hill, nr. Learnington Spa, Warwicks, November 7–11. The course is intended to give senior buyers in industrial and public undertakings the opportunity to study the various aspects of their functions. The course fee is £15 15s. and application forms are available from the Association at Wardrobe Court, 146A Queen Victoria Street, London, E.C.4. Closing date for applications is September 1.

### Retail Sales

BOARD OF TRADE STATISTICS

RECENTLY issued Board of Trade figures show that sales of chemists'

goods by independent retailers were 0.88 per cent, lower in April than in March, and 0.89 per cent, higher than in April 1955. Large retailers' sales were 5.6 per cent. lower in April compared with March but 2.1 per cent, higher than in April 1955. Sales by Co-operative Societies were 1.4 per cent, lower in April than in March but 10.8 per cent, higher than in April 1955.

### Royal Society

BURSARIES SCHEME AWARDS

AMONG recipients of awards recently announced under the Royal Society and Nuffield Foundation Commonwealth Bursaries scheme are: Mr. J. Harley-Mason (university lecturer in chemistry, Cambridge), to enable him to investigate some West Indian plant products of potential chemical and medical interest (in Jamaica, December to April 1957), and Professor H. Waring (professor of zoology, University of Western Australia), to enable him to investigate the influence of melanophore hormone preparations on carbohydrate metabolism, and particularly on the hyperglycemia induced by adrenaline (at Cardiff, October to January 1957).

#### IRISH NEWS

### **Chemists' Outing**

LARNE VISITED

LARNE was visited by members of the Chemists' and Druggists' Society on their annual outing on June 27. MR. JAMES IRWIN (treasurer, Pharmaceutical Society of Northern Ireland), presiding in the absence of Mr. Fred Storey (president of the Chemists' and Druggists' Society), welcomed the guests. He paid tribute to the work Mr. Storey had rendered to the drug trade and expressed regret that he was unable to be present because of an accident. He wished him a speedy recovery. They were glad to have with them Mr. Storey's brother, Captain J. W. Storey. MR. H. F. Moore also paid tribute to Mr. Storey and proposed that the secretary should send good wishes to him from the gathering. He also proposed a vote of thanks to Mr. H. McQuitty (secretary) for his organisation of the outing. Mr. J. F. BOYLE seconded. Other speakers were MISS A. E. STRACHAN (secretary, Ulster Chemist's Association), and Mr. J. STEWART, who replied on behalf of the visitors. CAPTAIN STOREY said that he would convey the members' messages of goodwill to his brother.

#### **Examination Results**

SEVENTEEN SUCCESSFUL CANDIDATES

THIRTY-FOUR candidates sat for the First Professional examination held recently by the Pharmaceutical Society of Ireland. The following seventeen were successful: First class honours, Kerins, T. J., McEneaney, B. A. Second class honours, Brady, D. J. B., Fleming, Pauline M., Kerins, J. M., Moran, T. F., Walsh, J. J. Pass, Buckley, & J. B., Cashman, T. T., Flynn, Maleen, Hogan, Catherine A., Langan, Sonanna, McDevitt, H. F. S., McLaughlin, D., Power, P., Sewell, J. J. M. L., Walsh, Albina D.

#### **NEWS IN BRIEF**

A SYMPHONY concert in the Dome, Brighton, on July 8, for delegates to the 1956 British Medical Association conference at Brighton is being sponsored by Ciba Laboratories, Ltd. Local pharmacists are among those being invited to attend.

THE period of opening of the Perkin Centenary exhibition at the Science Museum, South Kensington, is being extended to July 18. If interest is maintained at its present high level at that date, a further extension will be considered.

### SPORT

Bowls, — ULSTER CHEMISTS' ASSOCIATION BOWLERS V, BELMONT BOWLING CLUB on June 20. U.C.A., bowlers were defeated by 7. Results: U.C.A., S, T. McIlroy, 18, G. Hamilton, 17, S. Magowan, 18, J. Caldwell, 19, total 72. Belmont, R. H. Howard, 18, J. C. English, 18, H. Boden, 21, A. Lennox, 22, total 79, Mr. T. A. Ross (captain, U.C.A. bowlers) thanked the Belmont club for the use of their green.

GLASGOW PHARMACISTS' ASSOCIATION V. ULSTER CHEMISTS' ASSOCIATION, annual match, at Wellcroft Green, Glasgow, on June 27. Results (Scottish chemists, first):—W. Peebles 26; S. Magowan 6; R. Dick 19; J. Caldwell 16; A. McKinley 19; A. Steen 21; J. Brown 34; S. T. McIlroy 14; totals, 98, 57. Rexall Drug Co., Ltd., provided the cup, which was presented by the Scottish representative of the company (Mr. G. Prior), The links prize went to Mr. Peebles. The Ulster bowlers were received on arrival by the Lord Provost of Glasgow, who was presented with a shillelagh, and afterwards toured the City Chambers.

Company's Sports.—Kemaall, Bishop & Co., LTD., annual sports, at Ashton playing fields, Woodford Bridge, Essex, on June 30. Inter-division challenge shield, 1, I division (general office, staff canteen); 2, J division (research laboratory, works and general laboratories); 3, E division (factory 12). Tug-of-war cup, relay cup, J division, Mrs, H. F. Kemball presented the prizes.

Cricket.—THE BRITISH DRUG HOUSES, LTD., V. BIRMINGHAM PHARMACEUTICAL ASSOCIATION CRICKET SECTION, at Billet Road sports ground, London, E.17, on June 24, Played twelve a side. B.D.H., 156 for ten dec, (Wakefield 53, Parsons 20). Bowling: Wilton four for 27, Norton four for 41, Birmingham, 64 all out (Bakewell 19, Smith 18), Bowling: Wakefield three for 11.

Golf.—London Chemists' Golfing Society, at Moor Park, on June 28. Sanger cup, W. F. McIntosh (20), 72; Jubilee vase, H. A. Coward (16), 75; McClure Young prize, E. G. Nice (10), one down on bogey; Visitors' competition, 1, D. Spier (19), 71; 2, C. H. Vince (9), 73.

EDINAURGH CHEMISTS' GOLF CLUB, at Baberton, recently. Thornton and Ross prize, J. A. Smith (16), 65; Best scratch, J. B. McCaig, 75; No. 1 section, A. Young (12), 68; No 2 section, R. F. Muir (15), 66.

LIVERPOOL CHEMISTS' ASSOCIATION GOLFING SOCIETY, at Southport and Ausdale golf club, on June 27. Evans cup, F. Holden (16), 75; 2, T, B, Clarkson (17), 75; 3, J. J. Carroll (4), 77. Visitors' prize, C. Turner (7), 72.

IRISH CHEMISTS' GOLFING SOCIETY at Birr golf club on June 17, competition for P, C. Cahill & Co., Ltd., and Irish Pharmaceuticals, Ltd., prizes. Results: Eighteen holes strokes: 1, David Butler (5), 67; 2, J. B. O'Connor (20), 68, Best first nine: C. A. Collis (16), 35; Best second nine: M. Moloney (12), 35, Eighteen holes bogey: J. Hegarty (11) all square; 2, J. J. Power (19), 1 down; 3, A. Gleeson (10), 1 down, The captain (Mr. A. F. Hurson) presided at club-house dinpersion of the control of t

### TOPICAL REFLECTIONS

By Xrayser

### Annual Special Issue

It is almost superfluous to pay compliments on the publication of yet another Annual Special Issue. Such high standards have been achieved in the past that one has come to expect their continuance, and one invariably finds the expectation fulfilled. The thought sometimes occurs that the time for such a number should be Christmas, when the nights are long, and a warm fire and an armchair are conducive to the contented and contemplative mood required for the proper appreciation of such a feast. On the other hand, coming as it does halfway between the festive seasons, it stands alone, with none of the competing "bumper numbers" which engulf the reader at Christmas. Given suitable weather, there is no reason for the contents' failing to produce the correct frame of mind in a deckchair in the garden. The happy blend of the Conference "preview," the topical articles on sisal and on Dutch drug production, and the customary valuable contributions to our historical knowledge, make the 1956 issue one to be treasured through the years.

#### Tablet Guide

Accustomed as we are to the daily handling of an ever-increasing range of tablets and capsules, the coloured illustrations on pp. 604-5 must have produced in your readers a sensation of awe-struck wonder. The trouble taken by manufacturers to make each of their products distinctive and different from other firms' preparations, as well as their own, is a marvel of painstaking care. There is no doubt that the beautiful artistic product of the modern laboratory is attractive in appearance, but there are occasions when the pharmacist finds drawbacks to the artistry, particularly when insufficient records are kept by the prescriber. "Patientpressure," as it is termed, on such a practitioner for blue capsules can produce astonishing results, and on occasion the need for the expenditure of valuable time by the pharmacist in explanation and vindication. You are to be complimented on the originality and ingenuity of the scheme to assist both pharmacist and doctor, though you wisely stress that the material provided is only a guide. With the constant addition to the tablet and capsule materia medica, distinctive appearance becomes more difficult to achieve, and reliance on appearance alone can only be justified in conjunction with the factors emphasised by you. Identification of the product of the machine by appearance only is frequently impossible, but there are emergencies when, knowing all the circumstances, a quick suggestion may be of the utmost value. That is the main purpose of the guide, which all pharmacists will want to file for the emergency. The whole question of colour is a difficult one, and it may be that some day we shall see certain colours reserved exclusively to particular groups of drugs.

### Pure Pharmacy

The illustrated article on the new pharmacy in Bergen (p. 570) makes one wonder at what point in its development, pharmacy in this country went astray. Perhaps a historical account of the growth of the art in Norway and here would give some indication of the reasons for the much higher standard shown in Norway. Complete freedom to open shop in Britain is in line with that rugged individuality on which we pride ourselves. As a result, with completely unplanned development, there are more pharmacies in this country than are wholly necessary, with consequent broadening of the field of sale by virtue of economic necessity. Educationally, Britain is striving to raise her standards, and the code of ethics of the Pharmaceutical Society is a praiseworthy attempt to conform to certain ideals which have as their object the enhanced status of what we would like to think is a profession. The appearance in pharmacies not owned by the big multiples of such incongruous and unprofessional goods as trinkets and cheap jewellery must dishearten our legislators. It would appear that conditions of pure pharmacy are incompatible with complete freedom, as is clearly shown in Norway.

### POST-GRADUATE COURSES IN IRELAND

### Suggestions for further series

TO mark the close of the successful post-graduate course held over the past few months at the College of Pharmacy, Dublin, a social evening and discussion was held at the College re-cently. Mr. Donald W. P. Boyd (chairman, post-graduate course committee) presided. The president of the Pharmaceutical Society of Ireland (Mr. P. F. McGrath) and many members of the Society's Council attended. Mr. BOYD said that the first two post-graduate lecture courses had proved very successful, and they were there that evening to take stock and to hear the views of everybody on future courses. He paid tribute to Dr. Eoin Dowling for arranging the courses, and said that they were fortunate in having Dr. Peter Gatenby as their lecturer. The lectures by Dr. Riordan on radioisotopes, and by Dr. Donnellan on dermatology were also appreciated. MR. McGrath said the success of the courses was shown by the number attending that meeting. The Council were concerned in seeing that both licentiates and students kept up with the advances in pharmacy, and had done everything possible to improve the educational courses for them. The Council realised the need for postgraduate course for licentiates, but pressure of other business prevented the Council from undertaking that work. When, in October 1955, Messrs. Burke and O'Higgins had outlined the scheme the Council were glad to co-operate, and through Mr. D. J. Kennelly, they had had monthly reports. He could not say what the Council's view would be in the future, but he would like to see the present committee carry the work to a finish.

#### Discussion

In the ensuing discussion, Mr. R. PURCELL advocated two further years of post-graduate lectures covering radiotherapy, economics of medicine, accountancy, forensic medicine, nuclear physics, sanitation, pest control, anatomy, and pharmacognosy. MR. M. F. WALSH said that there had been a good attendance of medical representatives.

MR. R. J. SEMPLE stressed the need for courses for hospital pharmacists, medical representatives, and those in manufacturing, as well as for retail pharmacists. The idea of tying up with one of the universities to arrange for the degree of Bachelor of Pharmacy should also be considered. Mr. J. A. O'ROURKE said he would not favour the idea of having too many groups. He would like to see pharmacists with a knowledge of physiology and a good MR. M. F. grounding in economics. MOORE said that in any course for the coming year, pharmacology must play a big rôle. Mr. Boyd spoke of the need for courses in phytopharmacy for chemists in the country areas. Mr. J. J. COFFEY said that he hoped the lectures would become a permanent feature of Irish pharmacy and stop the drift of dispensing away from the chem-There was a tendency among the medical profession to go back to the

practice of fifty years ago and do their own dispensing. That was a dangerous policy and should not be allowed to continue. MR. C. O'HIGGINS pointed out that retail pharmacy in the towns and in the country were very different. Phytopharmacy was most important for the country pharmacist. For the city pharmacy, cosmetics were an important source of income. MR. McGRATH pointed out that the Council had concerned itself with phytopharmacy over the past two years, and the vice-president had organised a course in the country. The Council had discussed the matter with the Minister for Agricul-

ture who had promised he would give any help he could. MR. J. ROCHE said that the post-graduate courses had brought pharmacists together. He did not agree with dividing pharmacists into different categories.

MR. BOYD moved a vote of thanks to the registrar (Mr. James G. Coleman, B.L.) and his staff for the assistance they had given, and to Mr. John O'Grady of Messrs. Squibb for providing and operating his firm's film projector throughout the courses. On the proposition of MR. COLEMAN a vote of thanks was passed to Mr. Boyd for his work as chairman of the committee.

### WHY THE HOLD-UP?

### Hint at reason for delay over remuneration claim

IN a circular to secretaries of Pharmaceutical Committees, the National Pharmaceutical Union has given a possible explanation why nothing has happened for so long a period since a claim was put in for increased oncost and dispensing fees for chemist contractors under the National Health Service. The claim, it will be recalled, calls for an increased yield as from January 1, 1954. Nothing, apparently, has happened about it since March 8 of the present year, except that, at the request of the Ministry, the representatives of the contractors supplied additional data and explanations of the claim. Since no further requests for information came from the Ministry, the N.P.U. assumed, with some justification, that everything necessary for a decision was in the Ministry's hands. Both by correspondence and informally it has pressed for an answer.

So recently as June 6 a letter was sent to the management side of committee A of the Pharmaceutical Whitley Council asking for a meeting of the two sides "not later than June 14." To that the substance of the reply, dispatched next day, was that the Ministry was not ready to say anything definite on the claim. Nevertheless, they said, they had been "going into it actively." The Ministry promised that "there will be no avoidable delay in bringing them [the discussions] to a conclusion."

The Central N.H.S. Committee takes the view that the time has not yet come for reconvening a meeting of the conference of Pharmaceutical Committee representatives (as called for by a resolution passed at the previous conference in February) for, while there is "progress towards a solution," there is equally no question of an impasse. The Central N.H.S. Committee views the situation as involving some factor outside the control of the Ministry officials. "Whilst it is only a matter of conjecture, it seems highly probable to the Central N.H.S. Committee that the cause of the hold-up lies in the Treasury, and ultimately in the Government, and that until some question of principle and/or policy has been settled at one or other of those levels, the Ministry officials will not be authorised to

resume negotiations with us."

"We have been told," adds the statement, that the impasse may be resolved "at any day." If that should happen, then a conference of Pharmaceutical Committee representatives will be called at short notice during July. If it does not, then no conference will take place until mid or late September. Its purpose then will be either to consider settlement proposals or to decide on "action to be taken to enforce by constitutional means, the well-founded claims for an improved N.H.S. remuneration."

### **BUSINESS CHANGES**

MR. DANIEL BOYLAN, M.P.S.I., has opened a pharmacy at 9 Claddagh Green, Ballyfermot, Dublin.

MR. JOHN B. NOLAN has acquired the pharmacy at 9 Ludlow Street, Navan, co. Meath, Eire.

MR. G. W. DAVIE, M.P.S., has opened a branch pharmacy at 297 Baldwins Lane, Croxley Green, Herts.

MR. THOMAS H. CURNEEN, M.P.S.I., has acquired Dr. Nolan's pharmacy at 2 Dublin Road, Stillorgan, co. Dublin.

CARNEGIES OF WELWYN, LTD.
—Mr. K. J. Walker has resigned the
general sales managership of the company.

SAVORY & MOORE, LTD., have acquired the pharmacy of Mr. W. Haisleden, at 13 Windsor Drive, Chelsfield, Kent.

THE pharmacy of E. M. & M. T. Chater, Ltd., 19 Queen's Road, Watford, has been closed by the proprietor (Mr. G. L. Harbin, M.P.S.).

THE business of H. L. Gerry & Son, Ltd., 4 Eastgate Row, Chester, is being closed from July 7. The company intend to open another pharmacy in the west country.

DUNCAN, FLOCKHART & CO., LTD., are vacating the premisea 104 Holyrood Road, Edinburgh, 3 & Old August 6 and moving to Wheatfield Road, Edinburgh, 11 (telephone: Edinburgh 63922. P.O. Box No. 406).

#### LEGAL REPORTS

#### Deficiency in a Drug

AT Newark, Notts, recently, Ernest Holland, grocer, North Collingham, pleaded guilty to selling 4 oz. of sweet spirit of nitre found 93.6 per cent. deficient in ethyl nitrite. He was fined £1.

#### Altered Prescription

AT Nottingham recently, Mrs. Mary Caryll was conditionally discharged and ordered to pay £2 17s. costs on a charge of forging a prescription for Dexedrine tablets. The prescription was alleged to have been altered from "20" to "120" tablets.

#### **Alleged Forged Prescriptions**

AT Scarborough, on June 22, Constance Beeley, Tindall Street, Scarborough, was put on probation for two years after pleading guilty to attempting to obtain thirty sedative capsules by means of a forged National Health Service prescription form.

#### Methyl pentynol Sale Fine

AT Solihull, Birmingham, recently, Mr. James Weir, M.P.S., 45 Warwick Road, Olton, was fined a total of £10 and ordered to pay £5 5s, costs for offences arising out of a sale of methylpentynol. He had pleaded guilty to selling the drug not labelled in the prescribed manner, and to a person not "certified or known to be a person to whom the poison might be properly sold." The solicitor for the Pharmaceutical Society, which prosecuted, said that a chemist was not entitled to sell the preparation to anyone other than people he knew. The drug was not a poison chemically, although it was legally. Defending solicitor said that after asking Mr. Weir for permission to sell the drug, and being told "yes," his assistant had written "known" in the poisons book on the assumption that the purchaser was known to Weir.

#### **NEW COMPANIES**

P.C. = Private Company; R.O. = Registered Office

F. R. CALLOW & SON, LTD. (P.C.).—Capital £1,400. To carry on the business of dispensing chemist, etc. Directors: Margaret L. Callow and John R. Callow, M.P.S. R.O.: 53 Moorland Road, Weston-super-Mare.

SOUTHON - PRODUCTS, LTD. (P.C.).—Capital £10,000. To carry on the business of manufacturing chemists, etc. Directors: Leslie S. W. Southon and Oliver L. Lawrence, Solicitor: J. A. Hogg, 62 London Wall, London, E.C.2.

R. Y. DUCKWORTH & CO., LTD. (P.C.).—Capital £4,000. To acquire the business of a chemist at 137 Barton Street, Gloucester, as R. Y. Duckworth & Co. Directors: Dorothy K. Duckworth and Thomas O. Martin, M.P.S.

T. L. DOUGLAS, LTD. — (P.C.).—Registered in Belfast. Capital £1,000. To carry on the business of chemists, etc. Directors: Thomas L. Douglas, M.P.S.N.I., and Helen Douglas. R.O.: 14 Donegall Road, Belfast.

F. C. ASHLEY & NEPHEWS, LTD. (P.C.).—Capital £10,000. To acquire the business carried on at 274 Stamford

Hill, London, N.16, as Ashley & Co., and to deal in surgical requisites, etc. Directors: John D. Foxall and Leonard S. S. Dunckley.

J. S. GOOD & SON, LTD. (P.C.).—Capital £5,000. To acquire the business of a chemist carried on as J. S. Good at Bristol and Patchway, etc. Directors: Laura E. Good and Albert M. J. Good, M.P.S. R.O.: 69 Gloucester Road, Patchway, Bristol.

W. L. EVANS (CHEMISTS), LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale, retail and dispensing chemists, etc. Directors: William L. Evans, M.P.S., and Elsie S. Evans, R.O.: 3a Swains Lane, Highgate, London, N.6.

TINKER'S (CHEMISTS), LTD. (P.C.).—Capital £3,000. To acquire the business carried on by Walter Wilkinson, M.P.S., 238 Bolton Road, Pendleton, Salford, Directors: Walter Wilkinson and May Wilkinson. R.O.: 238 Bolton Road, Salford, 6.

FINLAY J. LOGAN, LTD. (P.C.).—Registered in Edinburgh. Capital £2,000. To carry on the business of manufacturing chemists, pharmacists and druggists, etc. Directors: F. J. Logan, M.P.S., and G. Logan. R.O.: 28 Main Street, Kilsyth.

FERMINIA, LTD. (P.C.).—Capital £100. To carry on the business of manufacturing chemists, etc. Subscribers: Jean Herbert and Thomas A. Herbert, 156 Strand, London, W.C.2. The first directors are to be appointed by the subscribers.

A. K. MACKENZIE (CHEMISTS), LTD. (P.C.).—Capital £2,000. To carry on the business of wholesale and retail chemists, etc. Directors: Albert K. MacKenzie and George Gray, M.P.S. R.O.: 5 North Parade, Mollison Way, Burnt Oak, Middlesex.

H. TILLNER (HOLDINGS), LTD. (P.C.).—Capital £100. To acquire the whole or any part of H. Tillner, Ltd., or the whole or any part of the undertaking of that company, and to carry on the business of wholesalers and suppliers to chemists, druggists, etc. Directors: William Godwin, Ronald A. Maskell, William Parker, M.P.S., and Charles A. Duguid. R.O.: Northfield Road, Reading, Bcrks.

#### Company News Previous year's figures in parentheses

SANITAS TRUST, LTD. — Group net profit for year ended March 31 is £217,905 (£197,839). Distribution, 17½ per ccnt. (same).

CARNEGIES OF WELWYN, LTD.—Messrs. C. C. Andersen and R. Innes have been appointed to the board. Mr. Innes has been associated with the company for the past fourteen years.

GRIFFITHS HUGHES PROPRIETARIES, LTD.—Ordinary dividend for year ended March 31 is  $7\frac{1}{2}$  per cent. (same). Consolidated profit is £388,573 (£424,563). After taxation of £208,753 (£234,236), payment of dividends and placing £36,175 (£64,064) to reserve the carry forward is raised to £132,034 (£90,987).

#### IN PARLIAMENT

#### By a Member of the Press Gallery, House of Commons

MR. PETER THORNEYCROFT (President of the Board of Trade) told MR. P. M. KIRK, in a written answer on June 20, that the report of the Committee of Inquiry on the use of unpatented inventions for defence production recommended that the Crown should be given permanent powers to authorise the use of such inventions and unregistered designs in connection with defence and Civil Defence contracts. He proposed to discuss the recommendations in detail with industrial organisations and to introduce legislation to give effect to them as soon as was practicable.

#### Rating of Shops

MR. DUNCAN SANDYS (Minister of Housing and Local Government) told LIEUTENANT-COLONEL J. K. CORDEAUX on June 26 that he would not consider, as a temporary measure, an appropriate percentage derating of shops and other commercial premises to ease the burden imposed on them by the recent revaluation. He did not think that it would be a good thing to take piecemeal action in advance of the completion of the Government's general review of local government finance.

#### Whisky in Scottish Hospitals

MR. J. STUART (Secretary of State for Scotland) told MR. A. WOODBURN, in a written answer on June 26, that expenditure in the year ended March 1956 on whisky for patients in Scottish hospitals was £1,704.

#### Health Centre Hold-up

MISS P. HORNSBY-SMITH (Parliamentary Secretary to the Ministry of Health) told MR, C, W. GIBSON on July 2, that one health centre and ten maternity and child welfare clinics had been refused sanction as a result of the cut of £340,000 in the capital estimates of local health authoritics.

#### Hospital Pharmacists' Salaries

DR. B. Stross asked the Minister of Health on July 2 whether he was aware that a pharmacist managing a large retail chemist's shop earned nearly twice the salary paid to a pharmacist in charge of a teaching hospital group; and when he intended to review the salary scales of hospital pharmacists.

MR, R. H. TURTON (Minister of Health)
replied that any review of hospital
pharmacists' salaries was in the first place a matter for the Pharmaceutical Whitley Council. DR. STROSS asked the Minister if he was not satisfied that the pharmaceutical services in the hospitals were now breaking down for the reasons implied in the question and, as a result, there was a great wastage of money in his Department. Mr. Turton replied that hospital pharmacists' salaries had been substantially increased by Whitley agreement in 1955. It was true that approvals had been given for payments to locums at the rate of £14 14s, a week. There was no fixed rate of payment for a locum.

#### **PERSONALITIES**

MR. G. L. HARBIN, M.P.S., proprietor of E. M. & M. T. Chater, Ltd., Watford, is emigrating to Australia when the sale of his business is completed.

DAME ENID RUSSELL-SMITH has been appointed deputy secretary to the Ministry of Health. She joined the Department as an assistant principal in 1925. The position that she occupied prior to her new appointment was that of under-secretary in charge of the division of the Ministry that deals with general medical, dental, pharmaceutical, and supplementary ophthalmic services.

SIR WILLIAM COCKER, O.B.E., M.A., J.P. (managing director, Cocker Chemical Co., Ltd., Oswaldtwistle, Lancs) is shortly being awarded the honorary degree of Doctor in Laws at Trinity College, Dublin. Sir William already holds the honorary degree of Master of Arts at Manchester University. Sir William's second cousin (Professor W. Cocker) holds the chair of organic chemistry in Trinity College, Dublin, and is a Doctor of Science at that University, while Sir William's son (Dr. Eric Cocker) holds the degree of Do-tor of Philosophy at the same University.



Mr. A. J. C. Gormley (chairman and managing director of John Wyeth & Bro., Ltd.), who, with Mrs. Gormley, received guests at the company's party on June 28 (p. 2).

MR. ROBERT G. JONES, M.P.S., has retired after forty-six years in



Mr. Robert G. Jones, M.P.S.

pharmacy. Since 1921 he had been in business in Rhyl, Flints.



Group photographed after the wedding of Mr. M. J. Butler, L.P.S.I., to Miss P. Shanahan. On the left is Mr. M. J. Butler, M.P.S.I. (father of the bridegroom), and on the right the bride's father, Mr. J. R. Shanahan, M.P.S.I. The Rev. W. Butler, who officiated and is in the group, is the bridegroom's brother.

#### **MARRIAGES**

BUTLER—SHANAHAN. — At St. Brigid's Church, Killester, Dublin, on June 25, Michael John Butler, L.P.S.I., Abbey Street, Wicklow (son of Mr. M. J. Butler, M.P.S.I.), to Phyllis Shanahan, Main Street, Castleisland, co. Kerry (daughter of Mr. J. R. Shanahan, M.P.S.I.).

SAMUEL — GOUBERT. — At St. Paul's and St. George's Church, Edinburgh, on June 22, James Marshall Samuel, M.P.S., 18 Eskview Road, Musselburgh, Midlothian, to Hilda May Goubert, Edinburgh.

SHINNER—GAMBLE. — At Duncairn Presbyterian Church, Belfast, on June 27, Joseph Walter Alexander Shinner, M.P.S.N.I., 11 Sunningdale Park, Belfast, to Barbara G. Gamble, Donore Lodge, Antrim Road, Belfast.

#### DEATHS

BARHAM. — On June 15, Mr. Joseph Barham, M.P.S., 132 Emmanuel Road, Balham, London, S.W.12, aged seventy-five.

DANIEL. — At his home, 33 Park Way, Friern Barnet Lane, Whetstone, London, N.20, on June 25, Mr. George Brimacombe Daniel, M.P.S., aged seventy. Mr. Daniel was in business in Wood Green, London, for many years. He retired a few years ago but continued to do relief work for his colleagues until he was taken ill in October 1955. He was chairman of the North Metropolitan Branch of the Pharmaceutical Society and president of the North London Pharmaceutical Association, 1955–56. At the 1956 annual meeting of the Association and Branch he was, as a mark of appreciation, appointed permanent vice-president of the Association.

DARLING.—At his home, 27 King George's Road, South Shields, co. Durham, recently, Mr. William Darling, aged fifty-four. Mr. Darling had three pharmacies in South Shields. A native of Hart, nr. West Hartlepool, co. Durham, he is survived by his widow and two sons.

HARLOW.—On June 9, Mr. Leslie Henry Harlow, M.P.S., 11 Newton Road, London, W.2, aged fifty-nine.

HAYS.—On May 29, Mr. Frederick John Augustus Hays, M.P.S., 151 Green Dragon Lane, London, N.21. Mr. Hays qualified in 1901.

THOMAS.—On June 2, Mr. Henry John Thomas, M.P.S., 2 Alexandra Road, Gorseinon, Swansea, aged seventy.

#### **INQUESTS**

Child Finds Strychnine Tablet. — At Exmouth recently a verdict that death had been caused by convulsions caused by strychnine poisoning was returned on the four-year-old daughter of Mr. W. G. H. Sawyer, Exmouth. A doctor said that, when she arrived at the girl's home, the child was lying on the floor and the father was giving artificial respiration. In parts of the body was later found strychnine sufficient to cause death. The child's father related that the girl and her younger sister had been put to bed at the normal time; when visited later they had been playing and all the drawers in the room had been pulled out.

Child's Half-bottle of Linctus. — At Birmingham on June 20, the coroner recorded a verdict of accidental death on David Allan Foulston, a four-year-old boy of 81 Stanhope Street, Highgate, who died after drinking nearly half a bottle of linctus. The boy's father said that, when he came home from work, his small son was "playing around in the kitchen" and another son, Brian, told him that David had been drinking some linctus out of a bottle. During the evening it was noted that David could hardly keep his eyes open and next morning the boy was transferred to hospital, where he died the same morning. Medical evidence was given that death was due to Physeptone poisoning. "It is dangerous to take more than the exact dose, and essential to shake the bottle—particularly with children." The coroner pointed out that a note on the bottle stated "Caution. It is dangerous to exceed the stated dose."

#### TRADE NOTES

Discontinued. — Genatosan, Ltd., Loughborough, Leics, have discontinued issuing Dipsor, Rosul, and Fissan ichthammol powder. Warehouse stocks are exhausted.

Sunlamp Price Reduced. — Perihel, Ltd., West Mall Works, 27 Rabbit Row, London, W.8, announce that, as a result of increased output, they are reducing the price of their Actinea ultra-violet/infra-red sunlamp.

Genetic Appliance.—A contraceptive appliance of original design, "based on a new approach" to the subject, is available (with full details and literature) from Gamic Genetic Laboratories, Potto, Northallerton, Yorks.

Agents for Scotland.—Evan Williams Co., Ltd., Aintree Road, Perivale, Greenford, Middlesex, have appointed W. & H. Anderson (Agents), Ltd., 534 Sauchiehall Street, Glasgow, C.2, the company's sole selling agents for Scotland.

An Entry Corrected.—An announcement by J. H. Haywood, Ltd., distributors and sundriesmen, Warser Gate, Nottingham, in the C. & D., Annual Special Issue, June 30, should have been entered in the Index to Advertisers as "Haywood, House of" and not as printed.

Table-stand Infra-red Lamp. — The Lumsden table-stand infra-red lamp manufactured by Lumsden Lamp Co., Millburn, Almondbank, Perth, has a polished aluminium reflector. An 11-in. diameter 250- or 400-watt model weighs 5 lb. and a 6-in. 250-watt model 2 lb.

Trade Distributors. — Garlic Deodorised Antiseptics, Ltd., Fairlight, Sussex, announce that George King & Co., Ltd. (Eustace Miles Foods Co.), Kingsbury Road, London, N.W.9, have been appointed trade distributors for their Garlisol and Sunblest natural remedies.

Advertisement Price Error.—Bengué & Co., Ltd., Alperton, Wembley, Middlesex, point out that the price of the 40-gm. tube of Veltis emollient cream, unperfumed, is 13s. per doz., purchase tax 3s. 10d. doz., inclusive retail price 1s. 10d., and not as stated in the company's announcement in the C & D., June 28.

Skin-cream Competition Prize. — A competition limited to ladies (proprietors or assistants) who sell skin creams has been organised by D. & W. Gibbs, Ltd., 47 Princes Gate, London, W.7, makers of Astral skin cream. The prize is a week's holiday for two on the French Riviera or £200 in cash. Entry forms with rules and information, are being distributed by the company's representatives. There are ten additional prizes of £10 each. Closing date for entries is September 24.

Additional Sizes. — BEECHAM PHARMACEUTICALS, LTD., St. Helens, Lancs, have made available a large consumer pack of Beecham's powders and a similar pack of Beecham's powders tablets. —BIOREX (MARKETING). LTD., 47 Exmouth Street, London, E.C.1, are marketing a twenty-tablet pack of Biosone

G.A. tablets, each containing 250 mgm. of active isomers of glycyrrhetinic acid.—G. D. Searle & Co., Ltd., 83 Crawford Street, London, W.1, have added to their range a 500-tablet pack of Mictine non-mercurial oral diuretic.

Shampoo Competition.—A competition designed to raise the sales of Sta-Blond and Brunitex shampoos is being run, in conjuction with the Radio Luxembourg programme, "Top Twenty," by the manufacturers, Scott & Bowne, Ltd., 50 Upper Brook Street, London, W.1. Girls from all over the United Kingdom are competing for the prize (a weekend in Luxembourg). Twenty finalists (ten blondes and ten brunettes) are being selected from snapshot entries sent with an empty packet or bottle label of the shampoos. Judging takes place in London on September 15; the prize going for beauty

and texture of the hair. All the finalists are being given radio, television and screen tests before an audience of producers, theatrical agents and casting directors.

Now to be Made in Britain.—Whiffen & Sons, Ltd., North West House, Marylebone Road, London, N.W.1 (industrial and pharmaceutical chemical division of Fisons, Ltd.) announce that, for the first time in the United Kingdom, theophylline is now being synthesised on a commercial scale at their Fulham factory. The plant will also produce synthetic caffeine. The development is logical, as the company has manufactured xanthine alkaloids for many years and is well-known for the high quality of its theobromine and caffeine from natural sources. The first United Kingdom manufacture of ethylene diamine was also announced by the company recently. Hitherto, theophylline has been imported from Germany and ethylene diamine from Germany and U.S.A.

#### **NEW PRODUCTS AND PACKS**

Heat-proof Stopper. — A rubber-covered, heat-proof stopper is one of the features of the latest model in the Airflow range of hot water bottles made by P. B. Cow & Co., Ltd., 12 Hay Hill, London, W.1. The new model, the Airflow Major is "finned" for maximum radiation and wide-mouthed for easy filling.

An Analgesic for Children. — C. L. Bencard, Ltd., Minerva Road, London, N.W.10, have introduced junior Paynocil, each tablet of which contains



aspirin, gr.  $2\frac{1}{2}$ , and glycine, gr.  $1\frac{1}{4}$ . The tablets are scored for halving to produce a  $1\frac{1}{4}$ -gr. dose of aspirin if required. The tablets disintegrate quickly, and the child does not have to swallow or chew them. Nor is it necessary to give a drink of water or disguise the flavour with jam or flavoured drinks. The ingredient glycine is stated to promote rapid, complete disintegration of the tablet and to confer on each particle a lubricant and demulcent barrier which protects the mucous lining of the stomach and oesophagus from irritation.

Perfumed Disinfectant Spray.—British Products Sanmex Co., Ltd., 5 Dalmarnock Road, Rutherglen, nr. Glasgow, have introduced a perfumed disinfectant in polythene spray ready for use. The spray is available in four perfumes:

Sweet pea in white bottle; lavender in blue; bouquet in green; and regent in pink. Refills are available in container holding enough concentrated perfumed disinfectant to fill the spray at least ten times when diluted. Both are packed in display box of 1 doz.

Antibiotic Ointment. — Glaxo Laboratories, Ltd., Greenford, Middlesex, are marketing a new speciality Neobacrin ointment, containing neomycin and bacitracin, for the treatment of skin and eye infections. The ointment contains in each gm. 5 mgm. of neomycin sulphate and 500 units of zinc bacitracin in bland paraffin base. Local application is understood to have been successful in pyogenic skin infections such as impetigo, sycosis barbae and furunculosis, secondarily infected wounds, ulcers and burns. Superficial eye infections such as blepharitis, conjunctivitis and styes have also responded well to application and risk of sensitisation is minimal. The packs are a 3·5-gm tube with ophthalmic nozzle, and a 15-gm. tube.

Antiperspirant and Deodorant. — A new freshener, Go spray antiperspirant and dcodorant, is being marketed by



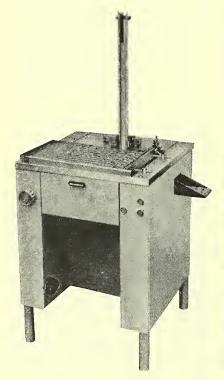
Freshness, Ltd., 38 Orsman Road, London, N.1, in the show carton illustrated. The blue and cream flexible "squeeze" bottle is refillable from a funnelled plastic sachet shown. At right is a counter card.

#### **PACKAGING** NOTES

Square Polythene Bottle. Damancy & Co., Ltd., Coronation Road, Ware Herts, are makers of a square 2litre polythene bottle. The base is 4 in. square. The air space is approximately per cent, of the internal volume. The bottle is made of Alkathene and therefore, suitable to hold liquids that do not affect that substance. Self - adhesive labels or direct printing are neces-

sary. A combined plug insert and screwcap avoids wear on the thread. The bottle weighs ½ lb. and the weight saving over glass is, therefore, considerable. Railway and export certificated cartons to take six bottles are available from the Thompson & Norris Manufacturing Co., Ltd., Great West Road, Brentford, Middlesex. Special prices for the bottles are quoted for large quantities. Delivery is fourteen days and free of charge in London.

Cap-lining Machine.—Thought to be the only English-made machine of its type in the United Kingdom, the first



production model of the Newman caplining unit was demonstrated recently by the manufacturers, D. Trapow & Co., Ltd., 113 Regent's Park Road, London, N.W.1. Its function is to insert

automatically pre-cut liners or wads of cork, board, or other material into caps for use on bottles or jars. The machine handles caps up to 50 mm. (2 in.) diameter x 25 mm. high, and its output is between fifty and 150 caps per minute, with variable speed control. A limit switch automatically stops the machine if faulty wadding is used, or if no wadding or caps are available. A hopper feed attachment can be fitted to the machine. The discharge of caps from hopper to oscillating feed table is controlled by the operator, who reverses those caps arriving mouth downwards. The vibratory effect of the feed table then carries the caps and aligns them before the chute, into which they drop to be cap-lined by automatic punch action.

More Economical Taping.—Recently John Gosheron & Co., Ltd., Vauxhall Bridge, London, S.E.11, reduced the prices of Transotape self-adhesive cellulose and Transovil self-adhesive Vinyl tapes. The reductions vary according to width and length.

A Tube Labelling Problem Solved. Universal Metal Products, Ltd., Langley Road, Pendleton, Salford, 6, Lancs, have developed, specifically for tubes used for packing products supplied against National Health Service prescriptions, a strippable coating, Strippex, with remarkable and exceptional fea-tures. Tubes coated with Strippex have the same appearance as others enamelled and printed in the conventional manner but the dispensing chemist may, immediately prior to supplying the tube to his customer, remove that part of the wording which is not essential or re-Strippex-coated tubes differ auired. from tubes supplied with other types of strippable coatings in that essential wording, such as directions for use and formula, remain on the tube. Thus apart from saving pharmacist the work of labelling, the process leaves the manufacturer in no doubt that his instructions on how the product should be used remain permanently on the

tube. The Strippex coating is applied in such a way that it does not interfere with the actual folding and closing of the tube. British patents are pending.

Nasal Spray and Eye Dropper. — A recent addition to the Skylon range of polythene bottles and jars is the "two-in-one" nasal spray and eye dropper



illustrated. There are four component parts which may be ordered in any quantities. Squeeze bottle, plug, tube and cap make up the nasal spray. Omitting the tube makes the eye dropper. The leak-proof polythene cap is of push-on type. The makers are Fibrenyle, Ltd., 157 Dukes Road, Western Avenue, London, W.3. Telephone: Acorn 5073.

Bag Sealer.—Included in a range of American dispensing and taping machines recently introduced into Great Britain by Johnson & Johnson (Gt. Britain by Johnson & Johnson (Gt. Britain) tain), Ltd., Slough, Bucks, for the manufacturers, Better Packages, Inc., Shelton, Connecticut, U.S.A., is the Nike bag-sealing machine. A semi-automatic dispenser for rapid sealing of filmic bags with cellulose film PVC or paper tape, the sealer is simple to operate. The neck of the bag is quickly "screwed" and pressed into a V-recess in the machine for sealing. As the bag is sealed the tape is automatically cut. The Nike is designed for use with \( \frac{1}{8} \) in, tape. First orders for the machines in the range are being met by imports from America, but it is intended to manufacture them in this country as soon as practicable.



Strippex coating on a collapsible tube carries the manufacturer's legend but all or part of it may be removed for relabelling by the pharmacist when dispensing the product.

#### **CROP CHEMICAL CONFERENCE**

#### A council of "war in which all are allies"

THE second international conference to be initiated by Plant Protection, Ltd., was held at Fernhurst, Haslemere, Surrey, June 19-21. Welcoming delegates at an inaugural luncheon held in London, on June 18, MR, E. M. FRASER (chairman, Plant Protection, Ltd.) said that the board and he had thought it time to initiate another international conference to "see where we are getting to." The "great gathering" embraced representatives from forty coun-They were engaged in a war in which all were allies. It was noble and necessary that mankind should engage in war against weeds and pests, malnutrition and famine. Chief guest at the luncheon was Mr. R. A. BUTLER (Lord Privy Seal). He wished the conference well on behalf of the Govern-

#### Mechanisms of Toxicity

At the morning session on June 20, SIR RUDOLPH PETERS in the chair, the subject discussed was "Mechanisms of Fungicides." Principal speaker was DR. S. E. A. McCallan (Boyce Thompson Institute, Yonkers, N.Y., U.S.A.). In his paper, the salient points of which he outlined to the conference he said that by far the greatest effort in elucidating mechanisms of toxicity had been devoted to a study of the relation between chemical structure and general biological responses. It was probable that the information on chemical structure would run to at least 100,000 chemicals evaluated for fungicidal activity alone. The goal in developing many pesticides was now that of selectoxicity. Data that had obtained in the author's own laboratory on the uptake of fungicides by fungal spores showed that the fungicides studied, which were believed to be more or less representative, were considerably less toxic on a weight basis than were the more effective animal poisons, insecticides, herbicides, and bactericides. It was evident that the present fungicides were not very effective nor probably very specific in action. Unlike insects, and bacteria, there was no evidence of a sustained resistance to fungicides developing in populations of fungus spores, pointing to lack of specificity.

The next speaker was Dr. J. W. L.

BEAMENT (Agricultural Research Council Unit of Insect Physiology, Cambridge). His paper "Some Physico-Chemical and Physiological Problems of the Mechanisms of Toxicity of Insecticides," stated that there could be a varie y of physiological causes of death, when different insects were treated with one and the same insecticide. That variation in the physiological cause of death made one realise that what went on inside an insect when an incompatible material was introduced was likely to be just as complex as what went on inside it when it was functioning normally.

It was quite obvious not only how far one was from explaining the mechanisms of toxicity, but how vain was the hope that it would be a straightforward story, when it was eventually obtained.

If If the applied biologist cound give the true physiological cause of the applied biologist death as well as his figures of mortality, one might already be much further along the road to explaining the mechanism of action of insecticides.



Professor R. Truhaut (Faculty of Pharmacy, Paris University) addresses conference,

Dr. J. T. Martin (Long Ashton Research Station, Bristol University) then read his paper on "The Mechanism of Toxicity of Insecticides and Fungicides." He suggested that the fact that cides." He suggested that the fact that some disease fungi were controlled by sulphur fungicides and others by copper fungicides seemed to be related to differences in the action of those fungicides on the key enzyme systems of the different fungi. It was possible that the study of possible reasons for the toxic action of poisons would eventually provide a more rational, less time consuming and more economical method of selecting toxicants than the present screening trials. Some of the most valuable insecticides showed too general an action. Little was known at present of the key enzymes in bost and parasite or in beneficial and harmful insects. Should those be found to differ significantly, the way might be opened to the planned derivation of insecticides showing greater specificity in effect. An extension of the practice of formula-tion of sprays for particular purposes, whenever economic considerations permitted, was most desirable. Above all, to put crop protection upon a scientific basis. the present conception of dosage, namely pounds of chemical per acre emitted by the machine, must be ex-tended to include a measure of the availability and potency of the toxicant at the site of action. Many cropprotection chemicals were being used at unnecessarily high rates. As knowledge of the mechanism of toxicity of chemicals and of the critical portions of the host plant to be treated improved, it would be possible to reduce the dosages of toxicant needed, and the way would be opened to the development and employment of expensive chemicals with particularly favourable

action, e.g., specificity in effect.

In the discussion that followed the reading of the papers, Dr. G. J. M. VAN DER KERK, Holland, asked whether the only interpretation of the figures put forward by Dr. McCallan was that present-day fungicides were not very active. Much of the fungicides was absorbed in unimportant parts of the plant. Chemists should seek for adjuvants to occupy the unimportant places and give fungicides a chance to act at low concentrations.

Dr. E. AINSWORTH said that formulation was very important. In experiments, zineb had performed both best of all and worst of all, depending on the formulation used. When a bad formulation went to an official station and was reported on in the literature one was not getting the true story of

what the material could do.

PROFESSOR R. L. WAIN, commenting on the fungicidal activity of sulphur, suggested that fo'lowing reduction of sulphur to hydrogen sulphide biological methyla'ion within cells might take place. Methyl mercaptan might be concerned with toxicity. Methylation reactions within organisms were well known but whether methyl mercaptan was formed or was toxic to fungi he did not know, but it did contain the

important thio group.

DR. R. K. S. Wood suggested that the lack of specificity of fungicides was not true of chlorinated nitro benzenes. They were not particularly good fungicides but remarkably specific. The growth of some fungi, especially Botry-tis, was greatly retarded. A large num-ber of Botrytis species grown in the vapour had produced variants not affected by nitro benzenes. Resistant strains had not been reported in the field. Similar conditions might not develop naturally.

#### Summing-up Discussion

Summing up the discussion THE CHAIRMAN said that the subject had enormous scope. Many people quailed at the enormous distance that had still to be covered but much progress had been made and progress was now more rapid.

In the afternoon, the subject discussed was "The Rôle of Systemics in Crop Protection." The chairman was Professor T. A. Bennet-Clark. Principal speaker was DR. R. L. METCALF (Department of Entomology, California University Citrus Experimental Station, Riverside, U.S.A.). In his paper he said that one of the most promising uses of systemic insecticides was as seed dressings. It seemed safe to predict that such use would ultimately be made on millions of acres. Systemic insecticides also showed great promise in the prevention of virus diseases which were propagated by insect vectors, for example, the swollen shoot disease of cacao which was carried by mealy bugs.

Next speaker was Dr. P. W. BRIAN (Imperial Chemical Industries, Ltd., Akers Research Laboratories, Welwyn, Herts). He said that a problem in the use of systemics that did not arise with toxicants applied externally was that of their susceptibility to metabolic changes in the plant. Those must not be so rapid as to give little persistence, but they must not be so slow that there was danger of harmful residual amounts in food crops.

DR. E. ABERG, Sweden, spoke on "Chemical Weed Control in Sweden." He said that continued use of only one herbicide might tend to encourage resistant species of weed. MCPA, while remaining the predominant weed-killer in Sweden, was likely to be used more in association with other products, notably 2,4-D and/or DNOC. The use of IPC against wild oats was also being studied.

#### Discussion

DR. E. HOLMES said that six or seven years after I.P.C. (iso propyl phenyl carbamate) had been first used in preventing the sprouting of potatoes, there had been a serious outbreak of skin spot. People had to keep an eye open for that sort of effect.

DR. VAN DER KERK suggested that the ideal situation would be to have inactive transportable compounds that would only be split into an active part by the fungus, and not by the plant.

MR. PADWICK said that he was not aware that systemics were displacing the extensive cutting-out campaign in the treatment of swollen shoot disease. He did not see how a systemic insecticide could do the job if the tree was already infected. MR. LAMB, West Africa, said that no systemic insecticides were being used in British West Africa against the mealy bug. Cutting out was still the standard method of treatment and had given satisfactory results.

MR. A. C. DE S. CASTELLO BRANCO, Portugal, said that there had been an outbreak of skin spot in Portugal in the second year of sprout suppression by IPC but IPC had since been used on a big scale with very good results and no further troubles of that kind. DR. HOLMES said that an attempt had been made to elucidate that problem since 1952 but there had been no recurrence of the trouble. MR. D. PRICE JONES said that although something could go wrong on occasions that did not mean the end of the particular chemical.

DR, W. G. TEMPLEMAN suggested that there would be great value in finding a systemic protective for application to crops to make them resistant to non-selective weed killers.

DR. BRIAN said that there was no doubt that in the laboratory the resistance of quite a variety of fungi to quite a variety of fungicides could be induced.

DR, METCALF said that his remarks about swollen shoot disease had been a misapprehension on his part.

After a break for tea conference was resumed with a discussion on "Residual Effects of Crop Protection Chemicals," under the chairmanship of Dr. A. J. Amor (chief medical officer, Imperial Chemical Industries, Ltd.). Principal speaker, Dr. J. M. Barnes (Toxicology Research Unit, Serum Research Institute, Carshalton, Surrey),

said that for outdoor workers the skin was the main route of exposure, whilst indoor spraying also involved risks from inhalation. Experience suggested that even the most dangerous chemicals could be used with only minimum precautions, e.g., prevention of contact with the skin (as by wearing a shirt) and above all, by thorough washing with soap and water, but that those minimum precentions. minimum precautions, and especially the availability and the use of facilities for washing, were absolutely vital. Rules and regulations must be designed to protect the careless worker. Barnes outlined treatment for cases of poisoning by the common crop protection chemicals, including the use of atropine against poisoning by organo phosphorus chemicals, and barbiturates against poisoning by chlorinated hydrocarbons. Perhaps too high a proportion of effort was being directed to the devising of new pesticides and not enough to learning how to use safely those already obtained.

#### **Professor Truhaut**

The next paper presented was "The Problem of Residues from Pesticides in Foodstuffs," by Doyen R. Fabre and Professor R. Truhaut (Faculty of Pharmacy, Paris University). PROFESSOR TRUHAUT read the paper. Substances which were not specially dangerous in single, relatively large doses (acute toxicity) might be much more dangerous in small, often repeated doses (chronic toxicity), while for other substances the reverse might hold. Because of the persistence of the effects after elimination of the product, there was no dose of a carcinogenic substance, however small that was not dangerous. The risks of noxious residues were inherently greatest when systemic insecticides were used. Residues could react with some food constituents and impair nutritive value, or promote digestive disturb-There was also the possibility of objectionable flavours or "taints" from the use of some pesticides. The prevention of those risks to the consumer involved, in extreme cases, prohibition of the use of certain substances, and in less extreme cases, the fixing by law of maximum tolerance limits for residues. The difficulties in arriving at reasonable values for such tolerances were great, and their enforcement was often hampered by the lack of accurate and delicate methods of analysis. A complementary method of obviating those risks was the prohibition of the application of certain crop protection chemicals in the later stages of growth of the crop. There again enforcement was difficult, especially in connection with pests that attacked the crop just before it was ready for harvesting. Of the many problems still demanding attention, perhaps the most important was that of educating the growers of food crops in the nature of the cropprotection chemicals they used; the reason for restrictions in their use; the nature of the risks involved; and how to use them so as to combine good control of pests and diseases without risk to the consumer.

The final speaker was Mr. F. J. D. THOMAS (head of Merrindale Biological Research Station, Croydon, Victoria,

Australia). He said that BHC had a fairly low phytotoxic limit for some crops and it could cause taint, especially with root crops and potatoes, but it was effective against pests at low concentrations, and it was lost rapidly enough from the soil not to accumulate even with repeated applications so that any residue problem was likely to be shortlived. DDT was less phytotoxic and it did not cause taint. But it must be used at higher dosages, and it disappeared very slowly from the soil and thus tended to accumulate and to present more serious residue problems. Aldrin, dieldrin and chlordane were intermediate between BHC and DDT in the above respects. Most modern weed-killers broke down fairly quickly in the soil, but a possible residue hazard existed with pentachlorphenol (PCP) if used at high rates.

#### Discussion

In the discussion that followed the reading of the papers, MR. W. C. MOORE (Ministry of Agriculture, Fisheries and Food, Harpenden, Herts) said that the approach in setting tolerances for food crops was very gradual. The Ministry of Health laid down special regulations about the use of some antibiotics and it was possible that regulations that existed about preservatives might be contravened if residues were found in food. He agreed with Professor Truhaut that collaboration at international level would be helpful.

DR. W. J. HAYES (U.S. Public Health Service, Savannah) said that his personal feeling was that the greatest contribution on the problem of residues could be made through mode of action studies including chemical and physiological studies. Work on insects contributed greatly to the knowledge how chemicals worked in organisms but a proper study of the effects on man required study of the effects in man.

DR. HOLMES said that he had been chairman of British Standards Institution committees on clothing and respirators but few meetings had been held because of the lack of basic information to define the field of hazards against which protection was wanted. The Ministry of Agriculture was now trying to get that information. He would echo Messrs, Truhaut's and Moore's plea for international co-operation.

MR, R. DE B. ASHWORTH (secretary, Crop Protection Products Approval Scheme) said that the Ministry had appointed two chemists to provide critical field data. Gas sampling techniques were very difficult and required a good deal of apparatus but accurate methods of analysis were most necessary.

DR. ÁBERG said that the first experiment in Sweden with CMU (3-(p-chlorophenyl)-1,1-dimethyl urea) had shown after effects lasting three or four years and it had not been used since. Climatic conditions had to be taken into account.

MR. H. C. MELLOR said that the tolerance figure that was set would not be a direct reflection of the toxicity of the compound but of the actual level found in any crop after harvesting. That could lead to confusion. The figure 0 could be arrived at in several ways, e.g. (1) no data; (2) too toxic, or (3) chemicals so volatile, no residue (e.g., TEPP).

#### FIGURES IN THE PHARMACEUTICAL WORLD



#### 40. Mr. GRANVILLE SHAW, F.P.S.

If there should ever be a switch from the present system of electing members of the Pharmaceutical Society's Council to a territorial method, the incoming president of the Society would have a good claim to be returned for the North Midlands area in which he is in business today. Mr. Granville Shaw acquired in 1938 the pharmacy in Long Eaton that had since 1881 been conducted by the late Mr. James Gelsthorpe. It is a large shop and allows ample room for the separate suite of optical rooms which is given so high an importance by its present owner. Its suitability for that purpose, in fact, was a main element in influencing his purchase of the pharmacy. He had no other special attachment to Long Eaton, nor even any special ties to the county in which it is situated. The choice may be regarded as symbolic of his attachment to the Midlands in general, for Long Eaton is only just within the boundary

of Derbyshire and overspills, as it were, into the counties of Leicestershire and Nottinghamshire.

Before he went into retail proprietorship Mr. Shaw had been for over thirty years a representative in the Midlands for the Manchester wholesalers, James Woolley, Sons & Co., Ltd. He acquired an intimate knowledge of his territory by covering it by train, bus, and on foot instead of in the car that later became the usual method of transport of representatives. Like all those who have been successful "on the road" Mr. Shaw is interested in people and the way they react to varying situations. As a young man he had a flair for caricature, and a glance back at issues of this paper in the years 1909–11 would reveal examples such as the one shown. With that human interest Mr. Shaw combines a reflective mind and a love of reading that is perhaps less universal among "knights of the road." Time

spent at the wheel was to him time that could be devoted to reading or actual study, and indeed his theoretical studies in optics were almost entirely carried out in railway carriages while going from town to town. He might be called, without any aspersion intended on other types of person represented on the Council, a thoughtful man—quietly spoken. With no ready-made solutions to the problems of pharmaceutical politics he gives to each as it comes along a close and serious study from more than one angle.

comes along a close and serious study from more than one angle.

Professionally, Mr. Shaw has a double claim to distinction. In pharmacy he was in 1905 (the year before he qualified) the winner of the Fairchild England prize. His pharmaceutical studies were taken at the Northern College of Pharmacy, Manchester, under those stalwart teachers known to many northern pharmacists of an earlier generation, the late Mr. George Clayton and the late Mr. Fred Lawson. His apprenticeship was in the pharmacy of William Smith, Silver Street, Durham, after a schooling at Rutherford College, Newcastle-on-Tyne. A year after qualifying he passed—on part-time study—the Pharmaceutical Chemist examination.

In the optical profession he was an honours Fellow of the Spectacle Makers' Company, and in 1929 was awarded a £10 10s, prize for attaining first place in the first Honours examination.

Mr. Shaw first put up for the Council in 1944. He did not at once get elected but was successful at his third attempt in 1946. On the Council he has served on all the Standing Committees, and as chairman for several years of the Establishment Committee. He has numerous outside interests, including music (he plays the 'cello and was the first president of the Long Eaton Music Club) and colour photography. In Freemasonry he is a 30° member in the Wingfield Rose Croix Chapter, and a Past Provincial Senior Deacon of the Nottinghamshire Province. He has the background to put him at ease in any company, and will represent the profession with dignity and distinction in his period of office.



A 1910 cartoon published in the С. & D.: "The Minor Candidate," by Mr. Shaw.





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#### A Penny More Per Three Bottles

At the conference of Pharmaceutical Committee representatives held in London in February, Mr. H. Noble, in a review of progress in negotiations with the Ministry, said that the 1.25d, per prescription then allowed for containers supplied under the National Health Service should perhaps be increased by 0.5d, Mr. J. Wright (assistant secretary, N.P.U.) expressed some doubt whether the Ministry would agree to make any agreed increase retrospective to April 1, 1954, as claimed.

Since the new rate falls below what was demanded, and is made retrospective (though not, by seven months, so far back as was sought), it is evident that both sides have conceded something in order to arrive at a compromise solution to the problem. The amount of a little under a penny more for every three prescriptions, though well below the figure asked, may in the long run prove better than it seems. For, as the N.P.U. points out to its members, the previous figure of 1.25d. was supposed to include an amount of labour costs in recovering bottles for reissue. The new figure omits that aspect, which is being dealt with as part of the main claim and may therefore, if the contractors' negotiators are successful in their efforts, include some allowance for those costs.

A further point is that it is specifically mentioned in the terms of the settlement that "the extent of antedating" in it is "without prejudice to the claim for ante-dating of the oncost and dispensing-fee claim." That seems to us to indicate that the Central N.H.S. Committee is going to stand firm for retrospective increases over a much longer period than applies to the container allowance increase. To give way on that issue would rightly cause dissatisfaction at an obvious injustice.

#### "Going Into it Actively"

In some circumstances, and to some people, there might be difficulty in explaining the nice distinction between a standstill and an *impasse*. To chemist contractors in the present state of their affairs the difference becomes clear after reading the explanation the secretary of the National Pharmaceutical Union (Mr. H. Noble) has given (p. 4) for recent silence over contractors' claims for higher oncost and dispensing fees from the Ministry of Health. "There is no question of an *impasse* having been reached," he maintains [and *impasse* means "a position from which there is no escape"]. On the other hand there is "no progress towards a settlement."

Of course the effect may be much the same at any given moment, and contractors may be pardoned, hearing nothing but silence, for a little restiveness in demanding enlightenment from their representatives. That enlightenment is forthcoming both in a published reply from the Ministry to a request by the Central N.H.S. Committee for an interview, and in the Committee's own very necessary explanation of some rather cryptic phrases in the Ministry's letter. The Ministry, by its own account, is "going into it actively" but "various discussions have had to be undertaken." The N.P.U. is sceptical about the "activity" ("snail-like progress") but interprets the "discussions" as an awaiting of a word of command from the Treasury "and ultimately from the Government."

Perhaps in that last remark lies the route of escape from the *impasse*. In the United States a President, while showing deference to Congress on most issues, must be prepared if need be to appeal direct to the people over the heads of Congress.

The political correspondent of the *Observer*, in a reference to Sir Anthony Eden the Prime Minister on July 1, said "High quarters these days say that he can hardly wait to make a decision." The time may have come to try and take advantage of the Premier's bold directness of decision by endeavouring to get the problem solved at Prime Minister level, even if it should mean going over the heads of others to reach him.

#### Progress in Crop Protection

IT is a measure of the rapid progress that has been made in crop protection that a senior Minister of the Crown should personally convey the blessings of his Government at the inauguration of a conference called by an industrial concern established less than twenty years. Mr. R. A. Butler (Lord Privy Seal) was chief guest at the luncheon that inaugurated the second international conference sponsored by Plant Protection, Ltd. (see p. 9).

Yet one idea that seemed to have taken root in the minds of contributors to the discussions, at any rate at the conference session on June 20, was that only the threshold has been reached in the science of crop protection. In the authors' papers, as well as in the spontaneous contributions from the floor, the recurring theme was "little is known. . . ." But as Sir Rudolph Peters said, much progress has been made and the pace of advance is now more rapid.

For pharmacists, the lesson is that an endeavour must be made to keep up with new knowledge in a field that they are basically well qualified to till. It is no accident that the joint authors of one of the lengthiest papers delivered on June 20 were pharmacists (Doyen Fabre and Professor Truhaut of the Faculty of Pharmacy of Paris University). Both are well known to pharmacists in this country as experts in the subject of phytopharmacy.

#### A PHARMACIST'S ANTHOLOGY

#### IT'S ALWAYS WRIT UP SO

From The Pickwick Papers, by Charles Dickens.

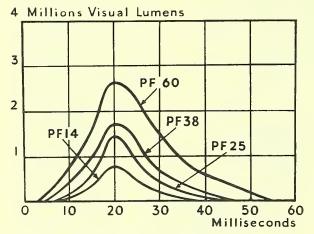
"It's a regilation of natur—a dispensary, as your poor mother-in-law used to say." "A dispensation," said Sam, correcting the old gentleman. "Wery good, Samivel, a dispensation if you like it better," returned Mr. Weller; "I call it a dispensary, and it's always writ up so, at the places vere they gives you physic for nothing in your own bottles."

# ARTIFICIAL LIGHT PHOTOGRAPHY Flash with more expensive cameras

THE more expensive cameras improve on snapshot models by having a variable lens aperture, variable shutter speeds, and a focusing movement. Every model manufactured since the war is synchronised for flash in the form of a standard 3-mm. Compur coaxial plug fitted to the shutter. The shutters may be set to give various speeds, sometimes up to 1/400th sec., but the use of fast shutter speeds for flash is limited by the type of synchronisation.

#### Time-light Curves

Although the flash appears to occur instantaneously, a number of events must take place in rapid succession before full light output is reached. They include heating of the



Output in lumens plotted against time in milliseconds.

filament, bursting of the priming paste, and subsequent ignition of the wire filling, so that there is in fact a short delay period between contact and full light output. Plotting the light output in lumens against the time in milliseconds (thousandths of seconds) produces a typical time-light curve, and with wire-filled flash-bulbs the peak occurs 18–20 msec. (1/50th second) after contact. The bulbs are known as class M (medium time to peak) flash-bulbs. The great amount of light given by a flash-bulb may also be appreciated if it is realised that bright sunshine gives illumination of about 1,000 lumens per sq. ft. The smallest flash-bulb produces illumination of that order for the duration of the flash at a distance of about 10 ft.

#### F and X Synchronisation

With simple synchronisation, contact is made during, or at the completion of, the shutter opening. If it is made during the opening there is a delay of 2-5 msec. before the blades are fully open, and shutters synchronised in that way are known as F type. When contact is not made until the blades are fully open, there is no delay, and the shutters are known as X type. X-type shutters are essential for electronic flash, which occurs at the moment of electrical contact. When shutters of those types are used with class-M flash-bulbs, it is essential that the blades should remain open long enough for the flash-bulb to give its useful light. Speeds faster than 1/25th to 1/30th sec. cannot be used, therefore, otherwise the blades close before the full light output is given, and it is important to stress that limitation to the customer. At the same time it is

worth mentioning that the exposure is decided by the duration of the flash, which is between 1/50th and 1/100th sec., and exposures of that order arrest normal subject or camera movement.

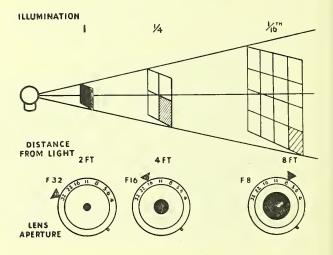
#### M Synchronisation

M-synchronised shutters are made so that shutter speeds faster than 1/25th to 1/30th can be used. They incorporate a delay mechanism. Although the contact is made when the shutter lever is fired, the shutter blades are held back, and do not open until 16-17 msec. afterwards. By that time the flash-bulb is reaching full peak, and even the briefest opening and closing of the shutter occurs during the maximum light output. The shutters all have an alternative X-setting for electronic flash (or flash-bulbs to 1/25th sec.), and are easily recognised by the small setting lever, which can be changed from X to M. The list below shows the type of synchronisation in the popular blade shutters.

SHUTTER	SYNCHRONISATION SHUTTER	SYNCHRO- NISATION		
Epsilon (later models)	X only Epsilon (early	F only		
X Compur Rapid	X only Epsilon models)	FX		
Pronto	X only Synchro-Compur	XM		
Pronto S	X only Prontor SV	XM		
Vario	X only Prontor SVS	XM		
Velio	X only Supermatic XM	XM		
Agilux	F only			

#### Exposure Calculation

Snapshot cameras have a fixed aperture (about f/14), so that at greater distances the exposure must be compensated by using a larger flash-bulb. More expensive models have a variable aperture, so that exposures at different distances with the same flash-bulbs may be compensated by altering the aperture. Lens apertures are scaled in f numbers, which are obtained by dividing the focal length of the lens by its effective diameter. As the amount of light transmitted is proportional to the area of the opening, the brightness of the image is inversely proportional to the square of the f number. Thus f/8 transmits twice the light of f/11, and f/4 transmits four times the light of f/8.



Illumination in relation to aperture.

Film Speed (Tungsten)		1/50th (M)	1/:	1/50th (M) 1/25th (F or X) AND OPEN FLASH			1/100th sec. (M)			1/250th sec. (M)		
ASA	BS°	PF1	PF1	PF14	PF25	PF1	PF14	PF25	PF1	PF14	PF25	
12-20 25-40 50-80 100-160 200-320	22-24 25-27 28-30 31-33 34-36	50 70 100 135 200	60 85 120 165 235	75 110 150 205 300	100 140 200 280 400	40 60 85 120 165	55 75 110 150 205	75 100 140 200 280	30 40 60 85 120	40 55 75 110 150	50 75 100 140 200	

Guide numbers.

#### Inverse Square Law

Illumination from a small single light source is inversely proportional to the square of the distance. Thus, at twice the distance, the light is spread over four times the area, and the illumination is reduced to one quarter. By combining that law with the inverse-square relationship of the f number, it is seen that, for a given light source and film, the distance in feet, multiplied by the f number for correct exposure, always comes to the same figure. That figure is known as the guide number, and all exposure calculations are based on this system. At faster shutter speeds pro-portionally less light from the flash is used and so the guide numbers are reduced.

#### How to Proceed

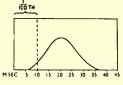
The procedure is:-

(1) Decide which shutter speed is to be used. With F or X shutter 1/25th sec. is the limit.

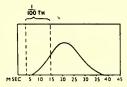
(2) Find the Tungsten speed of the film (it is given on the instructions issued with every roll).

(3) Find the flash-bulb being used in one of the columns headed by the chosen shutter speed. Look down the flashbulb column and select the guide number on the same horizontal line as the speed group of the film in use (e.g., PF25 used at 1/25th sec. with 31° material). Guide number is 280.

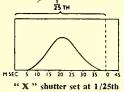
For correct exposure all that is necessary is to divide that number by the distance in ft. (between the flash and the subject). That gives the correct f number to use (e.g., at 17 ft. with the PF25 as above, the aperture will be 280/17 or f/16).



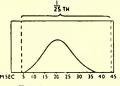
"X" shutter set at 1/100th M-class bulb.



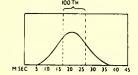
shutter set at 1/100th M-class bulb.



M-class bulb.



shutter set at 1/25th M-class bulb.



"M" shutter set at 1/100th M-class bulb.

## A "PROFESSIONAL" PHARMACY ENDS

#### Birmingham loses a business founded in 1820

THE business of T. & W. & W. Southall, Bull Street, Birmingham, closed recently (see C. & D., June 9, p. 489) and so passes yet another old style professional pharmacy.

A member of the Southall family opened the business in 1820 and gradually it grew, to become the premier business in the Midlands. Until the end of the nineteenth century it remained a family concern comprising retailing and manufacturing. Later, others were brought into the business and progress continued as Southall, Bros. & Barclay, Ltd.

The company were the originators of the disposable sanitary towel and at one time they owned their own codliver oil refinery in the Lofoten Islands. Southall's A.1. cod-liver oil was produced there until the 1939-45 war. The refinery was destroyed by British Commandos during a raid on the German garrison stationed on the island.

In 1935 it was decided to concentrate on the manufacture of surgical dressings and the retail and wholesale manufacturing businesses were sold separately. Savory & Moore, Ltd., acquired the retail business. Until the National Health Service began, a large business was done with supplies of drugs and surgical instruments to the dispensing doctors of the Midlands and with private dispensing. The Health Service practically eliminated the pro-



fessional sales and although dispensing increased greatly it could never replace the business done with the dispensing doctor, and so the business has had to close.

## NOTES ON NEW PRODUCTS

Comments on items given in Guide to New Medicaments, especially to show their relationship—pharmacological or chemical—with other products or compounds,

BIOSONE G.A. AND POLOGOL GLYCYRE-TIN.—Chemistry: Glycyrrhctinic acid has some structural affinities with hydrocortisone, The use of that acid in inflammatory skin conditions springs from the known cortisone-like action of some liquorice preparations.

DEQUADIN.—Chemistry: A new antibacterial compound with a wide range of activity, and capable of killing or inhibiting many penicillin-resistant organisms. The drug's activity is said to be retained in the presence of serum.

SINTHROME.—Chemistry: An oral anticoagulant derived from coumarin, Similar compounds: Marcoumar [3(1/phenylpropyl)-4-hydroxycoumarin], Cumopyran (cyclocumarol) [3-4 - (2/methyl - 2/methoxy - 4/ - phenyl) dihydropyranocoumarin], and cthyl biscoumacetate, Other oral anticoagulants: Phenindione (Dindevan and Indema).

TRIPLOPEN.—Designed to secure a high initial penicillin blood level from the soluble penicillin content followed by the sustained effect of the longer acting constituents. A similar long-acting preparation is Penidural all-purpose.

#### AMERICAN APPROVED REMEDIES

MEPROBAMATE, — 2-Methyl-2-n-propyl-1,3-propanediol dicarbamate, Meprobamate is chemically distinct from another propanediol derivative, mephenesin, Studies in animals indicate that meprobamate shares the skeletal muscle relaxant action of mephenesin but has much longer duration. The drug appears to be useful as a mild hypnotic in simple insomnia or as a tranquilising agent that can be employed in place of potent sedatives and along with psychotherapy in the management of psychoncurotic anxiety and tension states, Preliminary reports indicate it may be useful in the treatment of alcoholism. Its value in paralysis agitans and in management of frank psychoses has not been established. Data supplied by: Wallace Laboratories, Division of Carter Products, Inc., and Wyeth Laboratories, Inc. Proprietary names: Equanil, Miltown.

MERCAPTOPURINE.—6-Purinethiol. The drug is an analogue of the nucleic acid constituent, adenine, and the purine base, hypoxanthine. It is used for the treatment of acute leukemia. Data supplied by: Burroughs Wellcome & Co., Inc. Proprietary name: Purinethol.

MECHLORETHAMINE HYDROCHLORIDE, — 2,2/Dichloro - N - methyldiethylamine hydrochloride, Mechlorethamine hydrochloride, a nitrogen mustard also known as HN2, is highly toxic, both locally and systemically, and can produce a variety of actions, depending on the dosage administered. The drug is useful for the palliative treatment of certain neoplastic diseases, particularly those of lymphoid and hematopoietic tissues. Those include Hodgkin's disease, lymphosarcoma, certain types of

chronic leukæmia, lymphoblastomas of the skin, and mycosis fungoides. It is not intended as a substitute for accepted forms of radiation therapy, but rather as supplementary and complementary treatment in appropriate cases. Data supplied by: Sharp & Dohme, Division of Merck & Co., Inc. Proprietary name: Mustargen hydrochloride.

#### NEW GERMAN PROPRIETARIES

TROMALYT.—Antibiotic active principles of Tropæolum majus, Each sugar-coated tablet contains about 1-25 mgm, active substance. Indications: Cystitis, pyuria in small children, pyclitis, pharyngitis, bronchitis, etc. Dr. Madaus & Co., Cologne. (Pharmazeutische Zeitung, May 5.)

#### **GUIDE TO NEW MEDICAMENTS**

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (July 7, 1956).

#### BIOSONE GA\*

MANUFACTURER: Biorex Laboratories, Ltd.

DISTRIBUTORS: Biorex (Marketing), Ltd., 47 Exmouth Street, Rosebery Avenue, London, E.C.1.

DESCRIPTION: An ointment containing 2 per cent, active isomers of glycyrrhetinic acid in non-greasy or greasy base or with an additional 0.5 per cent, neomycin sulphate.

INDICATIONS: Eczematous and inflammatory skin conditions.

Use: As directed.

How Supplied: In 25-gm. tube. First Issued: January 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (July 7, 1956).

#### POLOGOL GLYCYRETIN\*

Manufacturer: Christie, George & Co., Ltd., 1 Academy Street, Warrington, Lancs.

DESCRIPTION: An ointment containing 2 per cent. glycyrrhetinic acid in a fatfree, polyethylene glycol base.

INDICATIONS: Eczematous and inflammatory skin conditions.

USE: As directed.

How Supplied: In 1-oz., 2-oz., 4-oz. and 1-lb. jars. First Issued: March 1956.

\*Cross reference for card index:

GLYCYRRHETINIC ACID: See Biosone GA and Pologol Glycyretin.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (July 7, 1956).

#### DEQUADIN lozenges

Manufacturer: Allen & Hanburys, Ltd., Bethnal Green, London, E.2.

Description: Lozenges each containing decamethylene-bis-(4-aminoquinaldinium chloride) 0.25 mgm. in a flavoured, sucrose base.

INDICATIONS: Bucco-pharyngeal infections.

Dosage: 1 lozenge sucked slowly every two hours.

How SUPPLIED: In tube of twenty and package of 250.

First Issued: February 3, 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (July 7, 1956).

#### TAXOL-METHIONINE

MANUFACTURER: Continental Laboratories, Ltd., 101 Great Russell Street, London, W.C.1.

DESCRIPTION: Laxative containing *dl* methionine, 0·20 gm.; bile salts, B.P.C., 0·10 gm.; pancreatin, B.P.C., 0·05 gm.; aloe, B.P. (Ferox), 0·01 gm.; agar, B.P., 0·05 gm.

INDICATIONS: Constipation and hepatic insufficiency.

Dosage: 1-4 tablets daily, swallowed whole, before meals, with a glass of water. How Supplied: In tube of thirty-six tablets. First Issued: October 1955.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (July 7, 1956).

#### HYDROCORTONE topical ointment

Manufacturer: Merck-Sharp & Dohme, Ltd., Hoddesdon, Herts.

DESCRIPTION: A dermal ointment containing 0.5 per cent.; 1 per cent.; or 2.5 per cent, hydrocortisone in either a water-miscible or an emollient (greasy) base.

INDICATIONS: Allergic skin lesions, contact dermatitis, and non-specific anogenital pruritus.

CONTRA-INDICATIONS: Tubercular skin lesions and herpes simplex. When infections also present, appropriate methods of control must be employed (see Hydroderm).

Use: 2-3 times daily. How Supplied: In 5-gm. and 15-gm. tubes and 50-gm. jar. FIRST ISSUED: December 1955; 0.5 per cent. strength, April 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (July 7, 19.6).

#### BISLUMINA

Manufacturer: Mining & Chemical Products, Ltd., 86 Strand, London, W.C.2. DISTRIBUTOR: C. J. Hewlett & Son, Ltd., King George's Avenue, Watford, Herts; and 216 Orr Street, Glasgow, S.E.

DESCRIPTION: An antacid, protective, antipeptic and gastric sedative in the form of a white cream containing 19 per cent. by weight of bismuth aluminate with 0.5 per cent. bentonite. Bismuth aluminate is a new compound with the formula Bi<sub>2</sub>(Al<sub>2</sub>O<sub>4</sub>)<sub>3</sub>:10H<sub>2</sub>O. Quantitative analysis of the cream gives the following results: Bismuth 8.3 per cent.; aluminium 3.3 per cent.

INDICATIONS: Gastric and duodenal ulcer and x-ray negative dyspepsias.

Dosage: Peptic Ulcer: One dessertspoonful to be taken in milk, or water, or alone, half an hour before meals, three times daily and once before retiring. That should be maintained until symptoms are absent for seven days. Dosage should then be reduced to one dessertspoonful before retiring and one half an hour before the main meal of the day, for a further seven days. X-ray Negative Dyspepsias: One dessertspoonful in milk or water or alone, half an hour before meals three times daily.

How Supplied: In 12-fl.-oz. (360-c.c. approximately) jar.

FIRST ISSUED: February 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (July 7, 1956).

#### SINTHROME\*

MANUFACTURER: Geigy Pharmaceutical Co., Ltd., Rhodes, Middleton, Manchester.

**DESCRIPTION:** Tablets, each containing 4 mgm. of an oral anticoagulant,  $3-[\alpha-(4'-\text{nitrophenyl})-\beta-\text{acetylethyl}]-4-hydroxycoumarin (nicoumalone).$ 

INDICATIONS: All forms of intravascular clotting.

Dosage: 20-28 mgm, on the first day of treatment, thereafter dependent on the response of the individual patient as measured by the prothrombin time determination.

-----

How Supplied: In containers of twenty, 200 and 1,000 tablets.

FIRST ISSUED: November 14, 1955.

\*Cross reference for card index:

NICOUMALONE: See Sinthrome.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (July 7, 1956).

#### TRIPLOPEN

Manufacturer: Glaxo Laboratories, Ltd., Greenford, Middlesex.

Description: Triplopen is a dry powder which easily suspends ready for immediate injection. It contains: Benethamine penicillin, 500,000 units; procaine penicillin, 250,000 units; and sodium penicillin G, 500,000 units, with buffering and suspending agents.

INDICATIONS: A wide variety of conditions including acute localised infections such as boils, carbuncles and cellulitis; syphilis and gonorrhæa. Also suitable as a prophylactic during surgical procedures.

Dosage: A single injection every three or four days.

How SUPPLIED: In single-dose vial and in pack of ten.

First Issued: January 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (July 7, 1956).

#### Suspension penicillin V, Lilly, paediatric

Manufacturer: Eli Lilly & Co., Ltd., Kingsclere Road, Basingstoke, Hants.

DESCRIPTION: A granular preparation of penicillin V. At the time of dispensing water is added to the bottle to make 60 c.c. of the prepared suspension, which is a pleasantly flavoured red syrup, containing in each 5 c.c., 62.5 mgm., penicillin V, crystalline.

INDICATIONS: Penicillin-sensitive infections in children.

Dosage: 1-2 teaspoonfuls (2.5-5 c.c.), according to the age of the child, given four to six times in twenty-four hours.

How Supplied: In bottle to make 60 c.c.

FIRST ISSUED: February 1, 1956.

REFERENCES: Bowerbank, Brit. med. J., 1955. 2. 1028. Dove. Brit. med. J., 1955. 2. 109. Dudley-Hart and others, Brit. med. J., 1956. 1. 496.

#### WORLD TRADE

Burmese Open General Licence. — The list of goods which can be imported into Burma under open general licence has been expanded to include coconut oil and "essential" toilet articles.

Manufacture of Streptomycin in India. — The estimates committee of the Lok Sabha (Lower House of the Indian Parliament) has suggested that the Indian Government should expedite the purchase of the equipment for the manufacture of streptomycin by the State-owned Hindustan Antibiotics, Ltd. According to an earlier estimate the equipment will cost \$850.000.

France to Ban Pr.ce Increases.—A decree banning price increases of most goods above present levels is being issued soon by the French Government. The decree will not apply to imported products whose prices depend on international price levels. Another decree will fix "middlemen's" profit margins in absolute terms and not in percentages as formerly.

Aid for Italian Sulphur. — The owners of Sicily's 360 sulphur mines. dissatisfied with Government plans to aid the industry, have announced that they can no longer pay their 10,500 workmen. Meanwhile the Industrial Commission of the Lower House of the Italian Parliament has approved a bill to lower Sicilian sulphur prices and make them internationally competitive. The bill next goes before the full assembly of the Chamber of Deputies, which usually votes in accordance with the proportion of votes cast by the members of the Commission. The Sicilian industry during the past four years has seen a continual exchange of threats to close on the part of the owners and palliative measures put forward by the Government. The basic difficulty is the high price of the Sicilian product — 42,000 lire per ton against American price of 19,000 lire. The Sicilian producers now hold virtually unsaleable stocks of about 300,000 tons.

U.S. Tariff Discussions.—The Tariff Commission of the United States has come to a deadlock over the question of increasing tariffs on imports of p-aminosalicylic acid and its salts. The six-man Commission voted three-three, and their decision was forwarded to President Eisenhower, who has sixty days in which to agree with one side or the other. The Commission announced that, after an investigation started in September 1955, upon the application of the Summer Chemical Co., New York (the principal U.S. producer), three Commissioners found that the acid and salts were being imported in such increased quantities as to cause serious injury to the domestic industry. They recommended that the present duty on imports should be increased to 5 cents per lb., plus 35 per cent. ad valorem. The other three members found that the domestic industry was not being seriously injured or threatened with injury, and opposed the tariff increase. Imports of the acid and salts are supplied to the American market by Germany, Italy and France, and in smaller quantities by Sweden, Belgium, Holland and Denmark.

#### Onward from Galen

A CURRENT CAUSERIE

KNOWN in the pharmaceutical world for having introduced sulphonal and phenacetin into medicine, Alfred Kast was born at Illenau, near Achern, Baden, Germany, on July 25, 1856. The son of a doctor, he studied medicine at Heidelberg, Freiburg-im-Breisgau, and Leipzig, and in 1881 began a close association with the physiological chemist Eugen Baumann, sulphonal's discoverer in 1886. The drug was introduced into medicine by Kast two years later as a substitute for chloral hydrate, through Friedrich Bayer & Co., Elberfeld. In collaboration with the Elberfeld chemists Duisberg and Hinsberg, Kast in the same year discovered phenacetin, which was tried out clinically during an epidemic of influenza in 1889. In 1892 Kast was appointed professor of medicine at Breslau. He died in 1903.

\*

Some interest has been shown by readers in the decorative headpiece to Miss Lothian's article on "Cherub Designs on English Delft Apothecary Ware" (C. & D. Annual Special Issue, June 30, p. 609). It is in fact taken from a panel in bronze, "Gate of Paradise," by Lorenzo Ghiberti (1378–1455) which forms part of the famous eastern door of the Baptistery in Florence set up between 1425 and 1482. A day or two before the issue was in the hands of readers an important set of mid-eighteenth-century drug jars bearing cherub designs, from the collection of Dr. John Williams, Richmond, Yorks, were sold at auction with other items including a pill slab and fetched the remarkably high figure of £600—proof, if any were needed, of the growing competition among collectors.

Readers referring to their A.S.I. are asked at the same time to correct the caption to illustration 10. It should read "10a, b and c: Eighteenth century pill pots showing

'cherub' designs. H. 3-4 in. Pil. coch. min. and pil. coch. maj. (the lesser and greater cochia pills) were the fore-runners of compound colocynth pills. P. coch. mai. by courtesy of Mr. G. H. Parkinson, Draperstown, Northern Ireland."

#### BRITISH FINE CHEMICALS AND THEIR USES

#### 59. CALCIUM CARBONATE

PRECIPITATED chalk is prepared from solutions of calcium salts by passing carbon dioxide gas into them, or adding carbonate solutions to them. A less pure variety is obtained as a by-product in several chemical processes. Passing an excess of carbon dioxide into milk of lime produces the soluble bicarbonate, which has a limited number of industrial uses. The native carbonate exists in a number of varieties.

In textile printing, chalk of a suitable grade is used (as being more economical) in neutralising the acid liberated in fixing basic colours, but precipitated chalk is often preferred as an addition to alizarine-red dye baths. Pure calcium carbonate, treated with stearic acid and other reagents, is used in the synthetic rubber air-bags which are employed to vulcanise pneumatic tyres. Such use should not be confused with the use of whiting or prepared chalk as filler for natural rubber. Precipitated calcium carbonate is also preferred in certain linoleum compositions, and in certain processes in the leather and tanning trades. Precipitated calcium carbonate has been used in the preparation of special varieties of paper, and to improve the combustibility of cigarette papers. In the printing trade it has been the subject of much research in producing sharp printing effects at high speeds, but in all those uses it has to compete with cheaper natural chalks. In the ceramics industry the best art enamels utilise precipitated carbonate; the manufacturer of high-grade crayons also prefers the purer product.

In colour photography a recent small use has been the addition of small amounts of precipitated carbonate to the water used for washing colour transparencies.

# Correspondence

#### **Hospital Pharmacy Departments**

SIR,—The Guild of Public Pharmacists has a Research and Planning Committee which is at present collecting and collating information regarding the construction and fittings of pharmaceutical departments in hospitals. It invites literature from firms undertaking such work. The committee would also like to hear from hospital pharmacists who have recently had a new or redesigned pharmaceutical department. Communications should be addressed to G.P.P. Research and Planning Committee, c/o 18 Sheepcote Road, Harrow, Middlesex.

Harrow Mary C. Islip

#### Friar's Balsam and Frier's Drops

SIR,—In his most interesting account of Eldridge (C. & D., June 30, p. 620) Mr. L. G. Matthews refers to Grubb's Frier's (or Fryar's) drops in a way which suggests that there is a connection between that preparation and friar's balsam. In gathering material for an article on the latter, to which Mr. Matthews kindly refers, I came across several references to Grubb's Fryar's drops, patented in 1771 as your contributor states, and found myself compelled to reject both Grubb and his drops from my conclusions. Grubb's Fryar's drops contained only one ingredient which at any time had any connection with Friar's balsam-balsam of Peru-other ingredients being calomel, antimony and guaiacum. It may be of interest that,

when evidence was given before a select committee during a "patent" medicine inquiry in 1913, a Mr. Parry stated that friar's balsam had been a proprietary medicine at one time. Xrayser II of THE CHEMIST AND DRUGGIST wrote then that confusion seemed to exist between Grubb's Fryar's drops and friar's balsam, though I have not the original reference to hand at the moment of writing. But Mr. Parry was right in his statement, if we are to accept the word of James's Dispensatory of 1747, which records that there were "at least twenty people in London who got a comfortable subsistence by selling it (friar's balsam) under various names and titles, and one had the impudence to obtain a patent for it, though in order to do so he must have been obliged to swear it his own invention in Defiance of Conscience and the Pillory, and notwithstanding that Pomet published the receipt in his History of Drugs many years ago." There seems no reason why the enterprising Eldridge should not have shared in the prevailing popularity of friar's balsam, for the period is that mentioned by James, and it is evident from the article by Mr. Matthews that Eldridge had no false modesty either about himself or the city of Norwich. I would, with deference, suggest that the preparation described as Friar's Grand Original Specific Balsam of Health is an ancestor of the one we know, and quite unconnected with Grubb and his patent.

Edinburgh, 8 C. G. DRUMMOND

#### Wanted: Stamp-duty Labels

SIR,—I am compiling a collection of medicine stamp-duty labels and I would be grateful to receive specimens from any manufacturer of proprietary medicines, or any retail pharmacist, who may still have some in his possession. With the passing of the Pharmacy and Medicines Act, 1941, most of the material was destroyed, and unless steps are now taken to preserve what remains, records of that aspect of the profession's history will be lost for ever. Specimens may be forwarded direct, or addressed to me, care of the Society's headquarters. I will appreciate any help members are able to give.

Portsmouth J. C. Bloomfield

#### Appreciated

CONGRATULATIONS on a new high in special numbers.—*E.B.* 

You are indeed to be congratulated on a most excellent Special Issue—well up to the standard of its many forbears.—

J.R.G.

I HASTEN to send my very heartiest congratulations upon your very fine effort in producing such an excellent Annual Special Issue. . . In my opinion this year you have excelled yourself.—J.C.B.

LET me congratulate you most cordially on a wonderful Special Issue, which has won high praise here. Everyone to whom I spoke was delighted with it.—
H.G.S., Dublin.

FLASHING

DISPLAY

# 'Marzine'

# STOPS travel 7 sickness

National Advertising is now appearing.

Make sure that 'Marzine' Display Material is prominently shown in your window or

A good display of 'Marzine' now will ensure that you get your full share of this profitable business.

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FOR TRAVEL SICKNESS

SHOW MORE-

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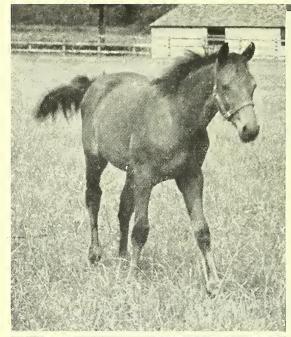
COLOURED Mobile



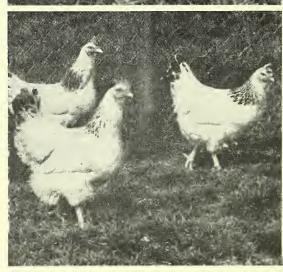
COLOURED SHOWCARD

Check your stocks of 'MARZINE'— remember that our Bonus offer holds good until the end of July. Orders for 3 doz. or more, carry a bonus of one free tube for each dozen.









# The ideal worm powder for HORSES, PIGS and POULTRY

'Pipricide', a preparation of piperazine citrate, is the ideal roundworm remedy for horses, pigs and poultry. It is effective also against small strongyles in horses and nodular worms in pigs. In the recommended dosage, it

- is non-toxic to the host
- immobilises the worms, thereby facilitating their elimination
- can be administered to pigs in wet, dry or swill-feeds, or as a drench
- can be mixed with mash or added to drinking
   water for poultry
- is conveniently administered to horses in a bran mash
- may be given to horses, pigs or birds of any age or weight

'Pipricide', which has been the subject of extensive investigations at The Wellcome Research Laboratories and The Wellcome Veterinary Research Station, is issued in containers of 1 oz. and 8 oz.

Order supplies now to meet the certain demand from your farming customers.





BURROUGHS WELLCOME & CO.

(THE WELLCOME FOUNDATION LTD.)

LONDON

#### TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

London, July 4: With holidays and stocktakings in progress at some of the manufacturing houses, buying has been on an even more reduced scale than in recent weeks. Price changes have not been numerous, the few recorded in the CRUDE DRUGS market being upward.

Curação Aloes was offered on the spot at 35s, per cwt. Chinese Menthol was dearer for the second week in succession although Brazilian was unchanged. NUTMEGS were considerably dearer upon increased demand. Tur-MERIC remained steady on the spot but the shipment position eased still further to 74s. per cwt., c.i.f. Vanillin (synthetic) was reduced by 2s. 6d. per lb. whilst ETHYL VANILLIN was down by 3s. Lycopodium was again available on the spot after being absent for several weeks. A better demand for CLOVES caused firmer spot prices.

In the ESSENTIAL OILS market Chinese ANISE was reduced by threehalfpence per lb. on the spot. Ceylon CITRONELLA was threepence per lb. lower with the shipment position virtually unchanged. Shippers of Italian Peppermint are quoting lower prices as the new season's crop approaches.

#### Pharmaceutical Chemicals

AMIDOL.—Quotations for 1-cwt. lots are 20s. per lb.

AMYLOBARBITONE. — B.P.C. is 65s. per 1b. for 1-cwt. lots and SODIUM, B.P.C., 70s. per 1b.

ATROPINE. — Rates (per oz.) for 16-oz. lots are: Alkaloid, 23s, 6d.; Sulphate. 19s. 6d.; Methonitrate, 26s. 6d. Methylbromide, 25s, 6d. Quotations for 1-oz. lots are 1s. 6d. above those rates.

BARBITONE.—Rate per lb. for 1-cwt. lots is 24s. per lb. The SODIUM derivative is 24s, 6d. per lb.

BRUCINE.—ALKALOID is from 1s, 2d, to 1s. 6d. per oz. and NITRATE and SULPHATE from 1s. 1d. to 1s. 5d. per oz. (100-oz. and 25-oz. respectively).

BUTOBARBITONE.—B.P.C. is 70s. per 1b. in 1-cwt. lots.

CALCIUM CARBONATE. — B.P. light-precipitated powder is £28 per ton, ex store. Minimum 1-ton lots.

CALCIUM GLUCONATE. -Quantities

3-cwt. and upwards are quoted at 3s. 9d. per lb.; 1-cwt. to 2-cwt., 3s. 10d.

CYCLOBARBITONE. — B.P.C. and CALCIUM derivatives in 1-cwt. lots are 62s. 6d. per

DICOPHANE (DDT).—Prices are as follows:—1-cwt. lots, 3s. 2d. per lb.; 1-ton, 2s. 11d.

GLYCEROPHOSPHATES,—Rates per lb. for 1-cwt. lots are as follows:—ACID, B.P.C., 20 per cent., 5s. 9d., CALCIUM, soluble B.P.C., 11s. 9d.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble, B.P.C., 14s. 3d., and insoluble, 7s. 6d.; MANGANESE, B.P.C., 26s. 3d.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 3s. 1d. and 75 per cent., B.P.C., 4s. 6d.

Guaiacols. — Liquid, B.P. is 16s. 3d. per 1b. for 28-lb. lots; crystals, 16s. 9d.; carbonate, 18s. 3d.

HEXOBARBITONE.—In 1-cwt. lots the price is 50s. per lb.

HOMATROPINE.—Current rates (per oz.) for 16-oz, lots are now: Alkaloid, 28s. 6d.; hydrogromide, 23s. 6d.; hydrochloride, 27s. 6d.; methylbromide, CHLORIDE, 27s. 6d.; METHYLBROMIDE, 24s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

IODIDES. — The current quotations are given below: -

IODIDE p		
ARSENIC TRI 4 CADMIUM 2 CALCIUM (PLATES) 2 ETHYL 2 LITHIUM 2 POTASSIUM 1 SODIUM 1	22 0 17 6 12 6 12 3 17 6 19 0 13 7 16 7	28 lb. 28 lb. 28 lb. 28 lb. 28 lb. 28 lb. 1 cwt. 1 cwt. 28 lb. 7 lb.

IRON SALTS. — SULPHATE, B.P. crystals are 8½d. per lb. in 28-lb. lots; 1-cwt. is 51s. 3d. per cwt. and 5-cwt., 48s. 9d. per cwt. Granulated and pea crystals are 2s. 6d. per cwt. more; SULPHATE, EXSICCATED is 1s. 3d. per lb. for 28-lb. 1-cwt., 111s.; 5-cwt., 107s. per cwt., 1-cwt. fibre kegs free, other packages extra. Phosphate, SACCHARATED, B.P.C., 28-lb. lots are 3s. 6d. per lb. Oxide, Red Precipitated, B.P.C., 1-cwt., 1s. 11½d. per lb.; CARBONATE, SACCHARATED, B.P.C., 28-lb., 3s.; 1-cwt., 2s. 8d. — AMMONIUM SULPHATE, 1 cwt., 1s. 6½d. per lb. 1-cwt., 2s. 8d. — At 1 cwt., 1s.  $6\frac{1}{2}$ d. per lb.

ISOPRENALINE SULPHATE.—B.P. is 1s. 3d. per gm. for 1,000-gm. lots and 1s. 9d. per gm. for 100-gm. lots.

KAOLIN.—In 1-cwt, bags LIGHT is quoted at 60s, per cwt, and 1-ton lots at 57s, per cwt.

LEAD ACETATE,—B.P. crystals are 200s. per cwt., and technical, 180s.

METHY PHENOBARBITONE.—B.P. is 43s, per lb. in 1-cwt. lots.

PAPAVERINE.—Synthetic HYDROCHLORIDE is 252s. 6d. per kilo.

PETHIDINE HYDROCHLORIDE. 100-gm. lots are now quoted at 100s. Subject to D.D.A.

PHENOBARBITONE.—1-cwt. lots are 21s. 6d, per lb. and sodium, 22s. 6d.

PHENOL.—Basic price for ice crystals in drums is 1s.  $4\frac{1}{2}d$ . per lb., and for detached crystals, 1s. 11d. LIQUID, B.P., 1s. 9d.; commercial, 1s.  $2\frac{1}{2}d$ .

PHENYTOIN SODIUM. — B.P. is 23s, per lb. in 1-cwt. lots.

PILOCARPINE. — In 100-oz. (or 2½-kilo) lots prices are: hydrochloride, 42s, 6d. per oz. (1,428s, 6d. per kilo); nitrate, 38s. per oz. (1,340s, per kilo).

nal quotations for HYDRATE are about 27s. 6d, per lb.

Procaine hydrochloride. — 1-cwt. lots are 30s. per lb.

Pyrogallic acid. — Pure crystals are 18s. per lb. in 1-cwt. lots.

QUININE.—Makers' nominal rates (per oz.) for 100-oz, lots and over are:—
ALKALOID, 3s. 10d.; ACETYLSALICYLATE, 5s. 4d.; BISULPHITE and SULPHATE B.P. 1932, 2s. 8d., SULPHATE, B.P. 1948, 3s.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 3s. 10d.; FORMATE, 4s. 8d.; GLYCEROPHOSPHATE, 4s. 5d.; PHOSPHATE, 4s. 4d.; HYDROGROMIDE and HYDROCHLORIDE and HYDROCHLORIDE HYDROBROMIDE and HYDROCHLORIDE, 3s. 5d.; SALICYLATE, 3s. 11d.; QUININE and UREA HYDROCHLORIDE, B.P.C., 4s.; TANNATE,

RESORCINOL. — 1-cwt, lots are now quoted at 13s. per lb, by manufacturer.

ROCHELLE SALT. — Rates (per cwt.) for ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows:—In 5-cwt. lots or over, 200s. per cwt.; 1-cwt., 202s. 6d. SEIDLITZ POWDER ordinary strength is 160s. 6d. per cwt. in 1-cwt. lots.; smalls, from 2s, to 2s. 3d. per lb. Extra strong is 172s. 6d. per cwt., and from 2s. 1d. to 2s. 4d. per lb. for small quantities. Double-strength is 180s. per cwt.; smalls, 2s. 2d. to 2s. 5d. per lb.

SACCHARIN.—In lots of 1 lb, and over B.P.C. powder is quoted at 99s, 10d, per lb., the Sodium Salt is 80s, 10d, per lb. Prices include duty and carriage.

SALICYLAMIDE. - Price (per lb.) for 1-cwt. lots is 8s. 6d.

SALICYLIC ACID. — Prices are now: 5-cwt, lots in bulk, 3s, 0½d, per lb.; 1-cwt., 3s, 1d.; 28-lb. and under 1-cwt., 3s, 8d.

SANTONIN. — The following prices (per kilo) apply in the home market, including Eire:—25-kilo lots, 800s.; 10-kilo, 860s.; 5-kilo, 880s.; 1-kilo, 900s.

STILBOESTROL.—1-kilo lots of B.P. and DIPROPIONATE are 730s. per kilo.

STRYCHNINE. — Minimum rates per oz. (1,000-oz. lots) include:— Alkaloid, 5s.  $7\frac{1}{2}$ d.; hydrochloride, 4s.  $6\frac{1}{2}$ d.; Sulphate, 4s.  $8\frac{1}{2}$ d.

SULPHACETAMIDE.—Quotations (per lb.) for l-cwt. lots are 24s. 6d. The SODIUM DERIVATIVE is 30s.

SULPHAGUANIDINE.—Manufacturers' rates for 1-cwt. lots are about 14s. 6d. per lb.

SULPHANILAMIDE.—Manufacturers' rates are from 6s. 3d. per lb. SULPHATHIAZOLE. - Price (per lb.) for

1-cwt, lots is 16s. 6d. SULPHOCARBOLATES. — SODIUM PHENOL-SULPHONATE, B.P.C. (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., is 5s. 6d.

SULPHUR. — B.P. PRECIPITATED is from £111 to £116 per ton, ex works as to quantity.

TANNIC ACID. — The B.P. levis, ex ether is quoted at 4s, 9d. per lb, for 5-cwt. lots and 5s, per lb, for 1-cwt.

TERPINEOL. — Prices of B.P. grade are from 3s, to 3s, 6d, per lb., as to quantity.

TERPIN HYDRATE. — Prices are from 5s. per lb. upwards as to quantity.

UREA. - Manufacturers' rates for pharmaceutical grade are £63 per ton in 1-cwt, bags non-returnable. Technical quality is £44 10s. per ton.

#### **EXCHANGE RATES** ON LONDON

At the opening on V	Vednesday
*Alexandria Piastres to £	971-971
Amsterdam .	10.56-10.72
*Bombay Shillings to	10 20 10 12
rupee	1/5 18-1/6 18
Brussels Francs to £	138-95-141-05
Copenhagen Kronor to £	19-19-19-48-
Dutch West	., .,, .,
Indies Florins to £	5.26-5.29
*Hong Kong Shillings to \$	
*Karachi Shillings to	-/-18 -/-18
rupee	1/5+8-1/6+
Lisbon Escudos to £	79-90-81-10
*Montreal Dollars to £	2.741-2.745
New York Dollars to £	2.78-2.82
Oslo Kronor to £	19.85-20.15
Paris Francs to £	972-6-987-3
Stockholm Kronor to £	14-374-14-594
*Singapore Shillings to \$	2/3 38-2/4 32
Zurich Francs to £	12-15-8-12-33-8
•Free market rates; remainder I	Bank of England
Bank rate increased to 54	per cent, on
February 16.	por cont, on

#### Crude Drugs

ACONITE. — Spot supplies of Spanish napellus are 3s. 9d. per lb., duty paid.

AGAR.—Kobé No. 1 is from 12s. 3d. per lb., duty paid, and 11s., c.i.f.

ALOES. — Prime Cape for shipment is valued at 330s. per cwt., c.i.f. Curaçao, 350s. spot and 340s., c.i.f.

Aniseed (STAR).—Chinese is offered at 135s, per cwt., in bond and 125s., c.i.f., for shipment.

Antimony. — English 99.6 per cent, is £222 10s.; 99 per cent., £210 per ton.

ARECA NUTS. - Quotations are from 55s. per cwt., as to quality on the spot. Shipment, 72s. 6d. to 75s., c.i.f.

ASAFŒTIDA.—Persian block is scarce on the spot wih prices nominal.

BELLADONNA. - LEAVES are 2s. 6d. per lb., c.i.f.; spot supplies scarce. Root, 1s. 10d.

CAPSICUMS.—East African on stalk are 150s. per cwt. on the spot.

CARDAMOMS.—Aleppy greens for shipment are 14s. 9d. per lb., c.i.f., and 15s. 6d. spot; seeds, 20s., c.i.f.

CASCARA SAGRADA.—American 1954 peel is offered at 260s. per cwt., duty paid. New-crop for July-August shipment, 230s., c.i.f.

CHERRY BARK. — Thin natural is from 1s. 6\frac{1}{2}d. per lb., duty paid, and rossed, 2s., on the spot.

CHILLIES. — Mombasa, spot 290s, per cwt., 280s., c.i.f. Sierra Leone, no offers.

CLOVES.—Zanzibar on the spot are now quoted at 3s. 3½d. per lb.; prompt shipment, 3s. 2¼d., c.i.f. Madagascar, 2s. 7d.,

COCHINEAL. — Black-brilliant is 32s. per lb. on the spot and silver-grey, 16s.

COCILLANA.—Bark is 2s. 6d. per lb. on the spot.

Spot offers are COLOCYNTH PULP. -4s. 6d. per lb., duty paid.

DIGITALIS LEAF.—Purpurea is offered at 3s. 2d. per lb., c.i.f.

ERGOT. — Portuguese on the spot is 8s. 9d. per lb.; forward, 8s., c.i.f.; Polish is from 4s. 6d.; Hungarian, high-testing, 11s. 6d. landed terms, and American, 10s. all on the spot.

GALANGAL. — Root is quoted at 52s. 6d. per cwt., c.i.f., for f.a.q.

GINGER. — African on the spot is 260s, per cwt., with July-August shipment at 232s. 6d., c.i.f. Jamaican No. 3 for July shipment, 500s., c.i.f., spot, 535s.

GENTIAN. — Very scarce on the spot. No shipment offers.

HENNA.—Indian is 70s. per cwt. on the spot.

Honey. — Australian light-amber is 145s. and medium-amber, 140s.; Argentine, 145s.; Jamaican, 145s. to 150s., all per cwt., on the spot.

HYDRASTIS.—Root is dearer at 20s, per lb. on the spot.

lpecacuanha.—Quiet. Colombian, 44s. spot, and 41s., c.i.f. Matto Grosso, 44s. spot, and 40s., c.i.f. (per lb.).

KARAYA.—No. 1 gum on the spot is now quoted at 295s. per cwt., and No. 2 at 255s.

KOLA NUTS. - Jamaican are offered at about 8d. per lb., spot, and African, 5½d.

LANOLIN. — In 1-ton lots the price of ANHYDROUS, B.P., is from 160s, to 165s, per cwt.; 5-cwt, lots from 162s, to 167s, per cwt. HYDROUS, B.P., is from 140s, to 142s, for similar quantities. All in drums, carriage paid, U.K.

LIQUORICE. — Quotations (per cwt.) for natural root are: Anatolian, 55s.; Russian, 42s, 6d.; Persian, 35s. Block juice is 200s. per cwt. for the Anatolian and

195s, for Chinese on the spot. Italian stick from 310s, to 475s, per cwt., duty paid.

LOBELIA HERB. — Spot material is 11s. to 11s. 6d. per lb. Aug 5s. 6d., c. and f., quoted. August shipment,

LYCOPODIUM. — Supplies of Russian triple-sifted are 7s. 3d. per lb. in bond. MACE. — Whole on the spot is 22s. per

MENTHOL. — Chinese, 48s. per lb. in bond (51s., duty paid). September—October shipment, 45s., c.i.f. Brazilian, 41s. 6d., in bond; 41s., c.i.f.

NUTMEGS. — West Indian on the spot are quoted at 5s, 10d, per lb, for 80's; sound unassorted, 5s. 7½d.; wormy and broken, 4s. 4½d.

PAPAIN. — Spot value for East African grade one is 21s. per lb. Ceylon brown is scarce on the spot; shipment, 15s., c.i.f.

PEPPER. — White Sarawak on spot is 2s, 5d, per lb, July shipment is 2s, c.i.f. Black Sarawak is in short supply with 1s, 10d, per lb, quoted for spot; Black Malabar, 270s, per cwt. on the spot; July-August shipment, 240s.; c.i.f.

PSYLLIUM.—Indian seeds are quoted at 1s. 1d. per lb. on the spot.

SAFFRON. - Mancha superior on the

SAFFRON.
spot is from 260s, per 10.

SEEDS.—(Per cwt.). ANISE.—Tunisian, 220s., in bond; Spanish, 260s., duty paid. CARAWAY.—Dutch is again easier, sellers asking 127s. 6d., duty paid. CELERY.—Indian is 140s., spot. CORIANDER.—Spot, Moroccan, nominal at 95s., duty paid; Rumanian or Danubian, 62s. 6d.; splits, 55s., and Bulgarian, smalls, 52s. 6d., all duty paid. CUMIN.—Cyprian, 130s.; Moroccan, 132s., 6d., duty paid; Iranian, 125s., duty paid.

Indian offered at 65s. on spot. duty paid; Iranian, 125s., duty paid.
DILL. — Indian offered at 65s. on spot.
FENUGREEK. — Spot. Indian, 69s.; Moroccan, 67s. 6d., duty paid.
English, 66s. to 77s. 6d., according to quality.

SHELLAC. — F.O.T.N., 300s. per cwt.; F.O. No. 1, 340s.; fine orange, 360s. to

SLIPPERY ELM. — Grinding quality bark is 2s. 6d. per lb.

SQUILL.—White is offered on the spot at 65s, to 70s, per cwt.

STRAMONIUM. — Indian LEAVES are 75s. per cwt. and European 80s, on the spot.

STROPHANTHUS. — Kombé on the spot is 6s, 9d. per lb. for the 100 per cent.; Gratus is 12s.

STYRAX. — Spot value is 5s. 9d. per lb., duty paid.

Tonouin Beans, — Para frosted are 6s. 6d. per lb. on the spot.

TRAGACANTH.—No. 1 ribbon is £17 £180 per cwt.; No. 2, £135 to £140.

TURMERIC.—Madras finger on the spot is 95s. per cwt. with July shipment, 74s., c.i.f.

VALERIAN ROOT.—Indian on the spot is 140s. per cwt. Dutch, 182s., c.i.f.

Vanillin. — Lower. Rates (per lb.) are now:—5-cwt. lots, 27s. 6d.; 1-cwt., 27s. 9d.; 56-lb., 28s.; smaller quantities, 28s. 3d.

Waxes. — Bees'—Dar-es-Salaam, shipment, 500s., c.i.f., spot, 535s.; Sudanese, 525s. duty paid, and 465s., c.i.f.; Abyssinian, spot 570s, duty paid, shipment, 490s., c.i.f. Candelllla.—Shipment, 520s. per cwt. landed; spot is 540s. Carnauba.—Fatty grey, spot, 600s. per cwt.; for shipment, 585s., c.i.f. Prime yellow, spot, 1,100s.; shipment, 1,100s., c.i.f. (per cwt.).

WITCH HAZEL LEAVES. — Spot supplies are 2s. 3d. per lb.; June-July shipment, 2s. 1d., c.i.f.

#### Essential and Expressed Oils

Anise. — Chinese, 15s. 4½d. per lb., spot; 14s. 9d., c.i.f.

Bois de Rose.—Brazilian is 26s. per lb. on the spot and 23s. 6d., c.i.f.

CAMPHOR, WHITE. — Chinese is 2s. per lb., duty paid.

CASTOR.—Minimum 2-ton lots of pharmaceutical quality, £154 per ton, naked ex mill, July-August delivery.

CHENOPODIUM. — Spot supplies are 31s. per 1b.

CITRONELLA.—Ceylon, 6s. 9d. per lb., spot; shipment, 5s, 10d., c.i.f. Formosa spot, 10s. nominal, in bond; shipment, from 6s. 9d. to 7s. 9d., c.i.f., as to position

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CUMIN. — Quotations for English-distilled oil are about 110s. per lb. and imported, 57s. 6d.

DILL. — B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are from 33s. 6d. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 8d. per lb.; 80 to 85 per cent., 6s. 4d. Spanish 70 to 75 per cent. at 5s. 6d., duty paid. Chinese type, 4s. 9d., duty paid.

LAVENDER.—B.P. French oil, 38-40 per cent. linalol on the spot is available at 73s. 6d. per lb. with 40-42 at 78s. 6d. Best Grasse for shipment is nominally 100s., c.i.f.

LEMON.—Prices of B.P. oil (4 per cent. citral) vary greatly on the spot according to quality and range between 25s, and 40s, per lb. Californian, 28s, 6d, to 36s, 4d., c.i.f., as to quality, subject to licence.

Lemongrass. — Spot is 14s. per lb. nominal; shipment, 9s. 10½d. to 10s. 6d., c.i.f., as to position.

Orange.—Spot quotations of sweet oil are from 4s, 6d, per lb, for Floridan to 21s, for West African. For shipment, proprietary brand Californian sweet is 6s, 1½d., c.i.f., and cold-pressed, U.S.P., 9s, 4d., c.i.f. Terpeneless is 210s, per lb, spot. Bitter orange oil is 20s, per lb.

PEPPERMINT. — Arvensis: Chinese PEPPERMINT. — Arvensis: Chinese is 32s. 6d. per lb. on the spot and 32s. 6d., c.i.f. Brazilian, 24s., spot, and 22s. 6d., c.i.f. Italian "Mitcham"-type oil is 56s. to 65s. spot, as to make. American, 42s. 6d. to 47s. 6d. English Mitcham, 190s. to 200s.

PINE.—Pumilionis on the spot is from 16s, per lb.; sylvestris, 9s. Siberian (abietis), 12s. 6d.

SPEARMINT. — Offers of U.S. oil for shipment are about 35s. 6d. per lb., c.i.f., with spot at 38s. Dutch quoted at 35s., duty paid, with Chinese offered at 27s. 6d.

TANGERINE.—Sicilian is from 38s. to 48s. per lb., on the spot.

THYME. — Spot is 9s, per lb, for the

#### UNITED STATES REPORT

NEW YORK, JULY 3: The CRUDE DRUG trade was quiet and FINE CHEMI-CALS demand was light during the week. Higher per lb. were GUM ACACIA, at 20 cents (up  $1\frac{1}{2}$  cents) and AGAR No. 1 Kobé, at \$2.10 (15 cents). Podo-PHYLLUM dropped 10 cents to fifty cents a lb. The market for AROMATICS and ESSENTIAL OILS was relaxed with few price changes of importance. NUTMEG gained 25 cents to move up to \$5.00 a lb. Lower per lb. were HELIOTROPINE at \$3.30 (30 cents), and LIME, \$6.25 (15

#### TRADE MARKS

#### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," June 6

For all goods (5)

THIXOKON, 747,717, by Mallinckrodt Chemicai Works, St. Louis, U.S.A. MIGRIL, 749,647, DARISUL, 751,319, DARVISUL, 751,320, LARADENE, 751,323, PENISPORIN, 751,325, PENITRACIN, 751,326, POLYTONE, 751,327, by the Wellcome Foundation, Ltd., London, N.W.1. ATLAPON, 751,113, by Chipman Chemical Co., Ltd., London, S.W.1.

For pharmaceutical preparations and substances

SMILUM, 751,061, by Metropolitan Drug Co., Ltd., London, S.W.19. MICRYSTON, 751,572, by Laboratories for Applied Biology, Ltd., London, N.16. PRENOLONE, 751,817, by Les Laboratoires Français De Chimiotherapie, S.A., Paris, France.

For pharmaceutical preparations and substances

for use by rubbing (5)

DENCORUB, 750,712, by Denver Chemical Manufacturing Co., New York, U.S.A.

For pharmaceutical preparations for the treatment of ailments of the liver (5)

HEPADIS, 748,692, by the Wellcome Foundation, Ltd., London, N.W.1.

For antibiotics for pharmaceutical and veterinary

TRIPLOPEN, 748,723, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

For antibiotics (5)

KEFAMYCIN, 749,736, by H. Lundbeck & Co., A/S., Copenhagen, Denmark.

For antibiotic preparations for the treatment of

diseases of the skin (5)
RHETOMYCIN, 750,485, by Boots Pure Drug Co., Ltd., Nottingham.

For analgesic creams (5)

EMBROCOL, 748,844, by G. & M. Chemicals, Ltd., Rock Ferry, Ches.

For dental preparations (5)

PENCICONES, 750,458, by Camden Chemical Co., Ltd., London, W.C.1.

For pharmaceutical estrogenic preparations for human and veterinary use (5)

DURAESTRON, 750,466, by Organon Laboratories, Ltd., London, W.C.2.

For pharmaceutical æstrogenic preparations (5) POLESTROL, 750,715, by H. Lundbeck & Co., A/S., Copenhagen, Denmark.

For yeast for use as a nutritional addition to toodstuffs for birds (5)

Device of the words PHILLIPS YEAST MIX-TURE, B750,708, by Phillips Yeast Products, Ltd., London, N.W.10.

For anæsthetic gases (5)

Device with the word AIRCO, 751,181, by Air Reduction Co., Inc., New York, U.S.A.

For antiseptic balm (ointment) (5) AGERTEEN, 751,219, by Hazlewood & Sons, Ltd., Manchester,

For pharmaceutical, veterinary and sanitary preparations and substances; disinfectants; antiseptics; preparations for killing weeds and destroying vermin; and insecticides (5)

LYPTOX, 751,414, by London Schemical Co., Ltd., London, S.E.1. Soap and

For pharmaceutical preparations and substances for use in the treatment of endocrine and nervous-system maladies (5) NEOVINCIDOL, 751,520, by

Industria1 Iberica Quimico-Farmaceutica, S.A., Barcelona, Spain,

For alginic acid and preparations containing alginic acid, all for pharmaceutical, veterinary and sanitary purposes (5)

BARALGIN, 751,630, by Farbwerke Hoechst, vormals Meister Lucius & Bruning, Frankfort, Germany.

For binoculars (9)

SOLAROSS, 752,158, by Ross, Ltd., London, S.W.4.

For cushions and pads, all electrically heated, for surgical or curative purposes; and electrically heated blankets (10)

Device with lettering MW, 728,962, by Milliwatt, Ltd., London, N.W.1.

For apparatus for resuscitation; oxygen tents, and apparatus for supplying gases and mixtures of gases and vapours for the treatment of human beings and animals (10)

Gases, Ltd., London, S.W.1.

For non-medicated paper handkerchiefs and paper towels (16)

SALVO, 750,618, by Southalls (Birmingham), Ltd., Birmingham, 8.

For cyder vinegar (30)

SLIMVIN, 748,262, by Francis Samuel Fawsitt, Banham, Norfolk.

#### From the "Trade Marks Journal," June 13

For sulphated fatty alcohols, being chemical products for use in the manufacture of wetting agents and detergents (1)

Two similar devices with the word CYCLO, B718,760 and B718,763, by Cyclo Chemicals, Ltd., London, W.C.2.

For high-boiling tar acids (1)

D.X.L., R.X.X.L., X.L., 738,001-03, by Coalite and Chemical Products, Ltd., Bolsover, nr. Chesterfield,

For chemical products used in industry, science, photography, agriculture, horticulture and forestry; manures, fire-extinguishing compositions; chemical

substances for preserving foodstuffs; etc. (1)
PYROCIDE, 740,022, and device 751,504, by
Borax Consolidated, Ltd., London, S.W.1.

For filtering materials (1)

NEROFIL, 746,248, by Great Lakes Carbon Corporation, New York, U.S.A.

For all goods (1)
PENTELEX, 748,620, by May & Baker, Ltd., Dagenham, Essex, Device, 750,201, by Cornelius James Sutton, Westerham, Kent.

For chemical products used in the manufacture of

Device of the word DAICOL, 748,083, by Cesalpinia, S.p.A., Milan, Italy.

For chemical preparations for addition to cement. concrete and plaster (1)

DURODUR, 750,279, and device with letters W. H., 750,841, by Westphal Hartbeton-Gesellschaft, Berlin-Charlottenburg, Germany,

For gelatin for photographic emulsions and for industrial use (1)

Device, 751,421, by P. Leiner & Sons, Ltd.,

For chemical products used in industry, etc. (1) GUSSOLIT, 751,697, by Fa., Gussolit-Gesellschaft Hajek & Co., m.b.H., Munich, Germany. For heat-exchange media in liquid and vapour forms, being chemical products for use in industry

DIPHYL, 751,880, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For ion-exchange materials, being chemical products for use in the treatment of liquids (1) LEWATIT, 751,881, by Farbenfabriken Bayer,

A.G., Leverkusen, Germany.

For liquid detergents (not for use in industrial or manufacturing processes (3)
VYTEX, 743,377, by W. & F. Walker, Ltd.,

Kirkby, nr. Liverpool.

For soaps, perfumes, non-medicated toilet preparations, essential oils, cosmetics, hair lotions and

Device with the word PANTENE 745.104 by Roche Products, Ltd., Welwyn Garden City, Herts. CREMOSOLA, 747,980, by Andre Kanitz, London, W.2. CREPE DE CHINE, 748,539, by Société Technique de Parfumerie, F. Millot, Paris, France.

For hair shampoos (3)
KIDDISHEEN, B750,763, by J. B. Green & Sons, Ltd., Edinburgh.

For detergents (not for use in industrial processes

or in the course of manufacture) (3)
QUEST, 751,612, BUSY, 752,244, and GLAD,
752,245, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For medicinal tea made from herbs (5)
HARZIMONA, 742,392, by Schliephak & Stevenson, Ltd., London, W.1.

For all goods (5) FEMGENE, 747,745, by Harker Stagg, Ltd., London, E.1. PREDNELAN, 749,154, by Glaxo Laboratories, Ltd., Greenford, Middlesex. VIVOMIN, 750,695, by the Crookes Laboratories, Ltd., London, N.W.10. BIOSONE and BIOTONE, 751,384-385, by Biorex Laboratories, Ltd., London, E.C.1. STEMETIL, 752,261, by Societe des Usines Chimiques Rhone-Poulenc, Paris, France.

For antibiotics (5)

TEROBIOTIC, 748,292, by Chas. Pfizer & Co., Inc., Brooklyn, U.S.A.

For antibiotics for pharmaceutical purposes (5) MATROMYCIN, 749,509, by Chas. Pfizer & Co., Inc., Brooklyn, U.S.A.

For pharmaceutical preparations (5)

ROCHETONE, 748,791, by Roche Products, Ltd., Welwyn Garden City, Herts.

For pharmaceutical preparations having spasmolytic, sedative, analgesic and hypnotic action (5) RILTONA, 749,158, by Roche Products, Ltd., Welwyn Garden City, Herts.

For pharmaceutical preparations and substances

Device with words AZ 8 BERIS, B749,374, by Laboratorium Beris, Zurich, Switzerland. METHORONE, 750,005, by The Houses, Ltd., London, N.1. XYLOPEN, Houses, Ltd., London, N.1, XYLOPEN, 750,564, by Duncan, Flockhart & Co., Ltd., Edinburgh.

For medicines for human use (5) PHORALL, B750,335, by Walter Styran, Sheffield.

For preparations for killing weeds (5)

Device with word HIGHWAYMAN, 751,153, Chipman Chemical Co., Ltd., London,

For veterinary preparations (5)

PROTHIDIUM, 751,316, by Boots Pure Drug Co., Ltd., Nottingham.

For suppositories (5)

751,510, and HEMOSULES, HEMOSOL, 751,510, and HEMOSULES, 751,657, by Hemosol Laboratories, Ltd., London, N.W.1.

#### **COMING EVENTS**

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

#### Sunday, July 8

CRICKET SECTION, BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Wrights Ropes Sports Ground, Stratford Road, Shirley, at 12 noon, Match against U.C.A.L., Ltd.

#### Monday, July 9

SHEFFIELD PHARMACY CLUB, Trippet Lane, Sheffield, at 7.30 p.m. Treasure hunt.

#### Tuesday, July 10

SOCIETY OF CHEMICAL INDUSTRY, Royal Institution, Albemarle Street, London, W.1. At 9.30 a.m., meeting of council; at 10 a.m., seventy-fifth annual meeting; at 11.25 a.m., presentation of addresses to the Society's president.

#### Wednesday, July 11

Society of Chemical Industry, Royal College of Science, Imperial Institute Road, London, W.7, at 10.30 a.m. Dr. L. A. Jordan on "Modern Methods of Research." At the Dorchester hotel, Park Lane, London, W.1, at 7.30 p.m. Annual dinner.

Thursday, July 12

SOCIETY OF CHEMICAL INDUSTRY, Royal College of Science, Imperial Institute Road, London, W.7, at 9.45 a.m. Lectures on products and tools of industrial chemistry.

#### Friday, July 13

Society of Chemical Industry, Royal College of Science, Imperial Institute Road, London, W.7, at 9.45 a.m. Lectures on products and tools of industrial chemistry.

#### Saturday, July 14

LONDON SECTION, ROYAL INSTITUTE OF CHEMIS-TRY, sports ground, London University, King's College, Lavender Avenue, Mitcham, Surrey, at 2.30 p.m. Tennis tournament.

#### PRINT AND PUBLICITY

#### Advertising Campaigns

ABBEY PARFUMERIE Co., LTD., 225 Baker Street, London, N.W.1: Lubin perfumes, In women's leading magazines from October.

BIOMETICA, LTD., Park Road, Barnet, Herts: Pinaud In weekly and monthly magazines and in national newspapers during July and August. Buto. In national newspapers and women's weekly and monthly magazines.

RANK PRECISION INDUSTRIES, LTD., 37 Mortimer Street, London, W.1: G.B.-Kershaw 110 camera. In London underground trains.

S. Maw Son & Sons, Ltd., Barnet, Herts: Maw's baby products In Woman, Woman's Own, Wife & Home, Family Doctor, Mother, Parents, Nursery World, Woman's Health Officer, Nursing Mirror, The Baby Book, throughout July.

#### Commercial Television

THE following products are being advertised on the days shown:

#### ALL STATIONS

FRIDAY, July 13: Kodak film (between 7.25 and 10.5 p.m.).

Saturday, July 14: Brylcreem.
Daily, July 8-14: Field's French soaps (two appearances),

#### LONDON STATION

SUNDAY, July 8; Brylcreem (between 10 and 11 p.m.); Beecham's pills; Anadin.

Monday, July 9: Brylcreem (between 10 and 10.30 p.m.),

WEDNESDAY, July 11: Brylcreem (between 10 and 10,30 p.m.); Gibb's S.R. tooth-paste (between 10 and 10,30 p.m.)
THURSDAY, July 12: Spray Tan (between 10,30

and 10.45 p.m.); Brylcreem (between 8 and 10 p.m.). FRIDAY, July 13: Beecham's pills; Brylereem (be-

tween 8 and 10 p.m.).

SATURDAY, July 14: Silvikrin liquid shampoo.

#### BIRMINGHAM STATION

SUNDAY, July 8: Kolynos.

THURSDAY, July 12: Gibbs' S.R., tooth-paste (between 8 and 10 p.m.),

SATURDAY, July 14: Silvikrin liquid shampoo.

#### MANCHESTER STATION

Sunday, July 8: Kolynos.

SATURDAY, July 14: Fennings' cooling powders, mother's book, rheumatic tablets (between 2,45 and 3,30 p.m., and 10,45 and 11 p.m.).

#### Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists, British Schering, Ltd., 229 Kensington High Street, London, W.8: Neo-Mercazole dosage and indications card; "The Superiority of Neo-Mercazole over Methylthiouracil," "Oblivon in Labour" (4-p. booklets); "Ethi-



SHOWCARD AND PACK: Colourful showcard produced by Morny, Ltd., 22 Wadsworth Road, Perivale, Middlesex, for their recently launched sandalwood tale, a container of which is shown alongside.

dol for the Menopausal Patient " (4-p, booklet, London and Scotland only),

GLIGY PHARMACEUTICAL CO., LTD., Rhodes, Middleton, Manchester: "Synopen," "Eurax Lotion," "Butazolidin," "Steroxin Oint-Lotion," "Butazolidin," "Steroxin Oint-ment" (information sheets); "Tebafen for Pulmonary Tuberculosis" (4-p. folder).

MERCK-SHARP & DOHME, LTD., Hoddesdon, Herts: "Inversine for Hypertension" bookler).

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: "Soneryl or Sonal-gin" (blotter); "Concise Information on Largactil " (6-p. folder).

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10: "The New Cortisone De-London, N.W.10: "The New Corti rivative DeCortisyl" (16-p. booklet).

THE CROOKES LAGORATORIES, LTD., Park Royal, London, N.W.10: "Veroxil Elixir for Thread-worm and Roundworm Infestation" (4-p. folder).

VERITAS DRUG CO., LTD., St. Mary's Water Lanc, Shrewsbury, Salop: "Opilon for the Treatment of Vascular Spasm" (20-p, booklet).

#### Periodicals

BOOTS PURE DRUG Co., LTD., Station Street, Nottingham: Modern Farming, Vol. 23, April. Pr. 36.

BRITISH CELLOPHANE, LTD., 12 Conduit Street, London, W.1: Merchandising Vision, Spring. Pp. 24.

HIIGER & WATTS, LTD., 98 St. Pancras Way, London, N.W.1: Hilger Journal, Vol. 2, No. 4. May.

POWFR-SAMAS ACCOUNTING MACHINES (SALES), LTD., 88 High Holborn, London, W.C.1: Power-Samas Magazine, Vol. 22, No. 4, Pp. 12.

#### Display Material

RANK PRECISION INDUSTRIES, LTD., 37 Mortimer Street, London, W.1: G.B.-Kershaw 110 Street, London, W.1: G.B.-Kershaw 110 camera. Three-colour strutted showcard, 10 x 7+ in.

HARKER STAGG, LTD., Emmott Street, London, E.1: Procidets throat lozenges.

SOUTHON LABORATORIES, LTD., 84 Upper Richmond Road, London, S.W.15, Esoban cream of ealamine. New showcards on request,

#### **Booklets and Leaflets**

ENESTA, LTD., Vintry House, Queen Street Place, London, E.C.4: "Facts About Venesta VENESTA,

SIGAL & CO., LTD. (purchase-tax change)

 $\begin{array}{ccc} 20 & 0 \\ 27 & 0 \end{array}$ 

27 0 10 0

hair 2 oz.

4 oz.

2 oz.

gway perfumed lacquer spray†

refill†



UNUSUAL DISPLAY PIECE: Gordon-Moore, Ltd., St. Swithin's, Norwich, Norfolk, have produced for their Punch & Judy tooth-paste the display unit shown. The unit holds a 1-doz. wrapped parcel of the tooth-paste and is changed into a display piece by depressing the platform and pushing up the cut-out figures. The bottom of the unit then holds six cartons on display.

Foil." A review of the manufacture and uses of aluminium foil for packaging purposes. Pp. 22.

Wander, Ltd., 42 Upper Grosvenor Street, London, W.1: Ovaltine Research Laboratories Annual Report (1955). Pp. 6.

#### Catalogues

J. & R. FLEMING, LTD., 146 Clerkenwell Road, London, E.C.1: Fleming safety goggles, Pp. 32.

#### C. & D. WEEKLY LIST OF PRICES

A-Advanced; R-Reduced; I.R.P.-Inclusive Retail Price; \*-Tax 30 per cent.; †-Tax 90 per cent.

GENATOSAN, LTD. (from				P.A.T.A. PROTEC	TED L	IST	
	Doz.	I.R.F		(Alterations notified this week			etary
Genisol*	24 0	3 4	A	Articles Trade Association).	a by the	Lopin	c cent J
	Each						
Sebbix shampoo* 20 oz.	16 6	26 6	4	COW & GATE LTD. (from J	uly 2)		
Scoots shampoo 20 oz.	10 0	20 0		Cow & Gate food (full and			
CLAVO LABORATORIES	1775 (6		21	half cream)	58 9	6	3 A
GLAXO LABORATORIES,		om July	2)		4 doz.		
	Doz.				56 3		
Ostermilk Nos. 1 and 2				DELETED FROM PRO		LIST	
1 lb.	40 0	3 9	A		TECTED	LIJI	
	2 Doz.			GENATOSAN, LTD.	D =1		
	38 3			Fissan ichthammol powder, l	cosui,		
	4 doz.						
	36 6			NEW PRODUCTS A	AND PA	<b>ACKS</b>	i
				BEECHAM PHARMACEUT			
	Doz.			BEECHAM FIIARMACECT	Doz.	LID.	
Casilan 8 oz.	40 6	4 6	$\boldsymbol{A}$				
				Beecham's powders*	30 3		0
DON S. MOMAND, LTD.	(from Jul	v 2)		Beecham's powders tablets*	30 3	4	8
Alka-Seltzer tablets* 12	14 1	1111	A	C. L. BENCARD, LTD.			
30	27 6	3 9		Junior Paynocil tablets* 20	16 6	2	6
30	27 0	3 )	-71		180 0	-	
DEDITIES LTD				and bearing the formation of the contract of t			
PERIHEL, LTD.				BIOREX (MARKETING), LT	D.		
Actinea ultra violet/infra					Each		
red lamp		252 0	R	Biosone G.A. tablets* 20	21 9	39	0
						•	
CAMPAGE A PROPERTY.				FRESHNESS, LTD.	Doz.		
SAVORY & MOORE, LTD.				Go spray*	20 0		0
Air Sic tablets* 10	13 6	2 0		refill*	13 4	2	0
30	32 0	4 9	R				
Mayfair A blackcurrant				DOROTHY GRAY, LTD,		5	0
syrup 13 oz.	32 0	3 4	R	Pore grains*		5	9
3,.40	0		- '	RONA LABORATORIES			
				Argotone ophthalmic drops*	30 9	4	2
0 00011 0 00 100				Argotone opininamine drops	50	-	-

G. D. SEARLE & CO., LTD. Mictine tablets\* 500

Gamic genetic appliance

GAMIC GENETIC LABORATORIES

340 0

Each

63 0

# A new

# SEARLE Product

"Metamucil" is designed to be taken with water, milk or fruit juice. It produces a soft, bland mass of inert lubricating bulk initiating reflex peristalsis without irritation or straining. "Metamucil" is the corrective of choice for all ages and those chronically ill.



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Constipation

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The large size will still continue in demand by enthusiasts who have formed the habit of buying Tress at 2/10½ d per bottle.

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selling at 1/9d per bottle.

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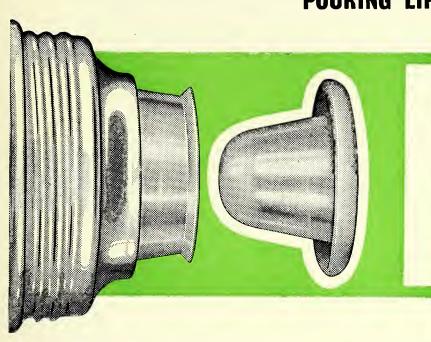
Trade Enquiries for the Republic of Ireland should be addressed to: Lilmar Pharmaceuticals, Ltd., Santry, Dublin.



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which:

Snaps on, lifts off in an instant Fits tightly, cannot leak

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Does away with paper and parchment wrappers

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**Sulcolox**Regd. Trade Mark

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#### **Enteric Coated Tablets**

act overnight

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promptly empty the lower bowel replacing the enema

Supplied

Tablets (enteric coated) of 0.005 g.
Bottles of 30 and 200
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LEWIS LABORATORIES LTD., LEEDS 9

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Entry forms, complete with the rules and useful information are being distributed by Gibbs sales representatives. If you haven't yet received your entry form or you would like another entry form, do please write to:—

Gibbs Astral Cream Competition, 47 Prince's Gate, London, S.W.7

The closing date for entries is 24th SEPTEMBER, 1956

If you are a lady retailer or a lady assistant—here's your best-ever chance to have the holiday of a lifetime—all expenses and air fare paid up to a maximum of £200. Unlike competitions open to tens of thousands of people, this one is limited to ladies who sell Skin Creams. The winner of this exclusive competition has a real thrill in store: a week's holiday for two on the fabulous French Riviera or £200 in cash is offered by Messrs. D. & W. Gibbs, the makers of Astral Skin Cream.

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ASL 75-584-120



Taking delivery of vegetable drugs or galenicals? Then how wise you will be to make *doubly* sure that you are receiving a Ransom product. Remember, too, that many Ransom drugs are grown on the Company's own farms at St. Ives, Huntingdon — where well-directed research contributes much to Ransom leadership in drugs and galenicals.

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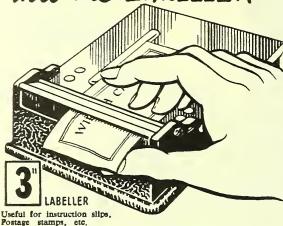


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Telephone: BLAckfriers 7224 (4 lines)

# Speed up your Despatch —

ELS of all kinds - just flick them thro'the LABELLER



The Labeller is clean and speedy in operation; with the brush moistening device labels are just "flicked through" between the pressure bar and over the brush and this ensures not too much or too little moisture to the labels, just sufficient all over moistening to gummed surface.

The Labeller is made in red porcelain finish with a bright nickel feed plate over the tank.





Backed by national full colour advertising woman's own Every woman is a possible buyer of this dainty toilet accessory. Reasonably priced at  $3/7\frac{1}{2}$  to ensure spontaneous purchase! Complete in moulded case with 2 blades, in PINK, BLUE, GREEN. "Nymph" Blades in cartons of 6 blades, 1/6.

Obtainable from your usual wholesaler.

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While you are engaged on more important matters "FLUID" STIRRERS will effectively stir and mix all forms of liquid and semiliquid.

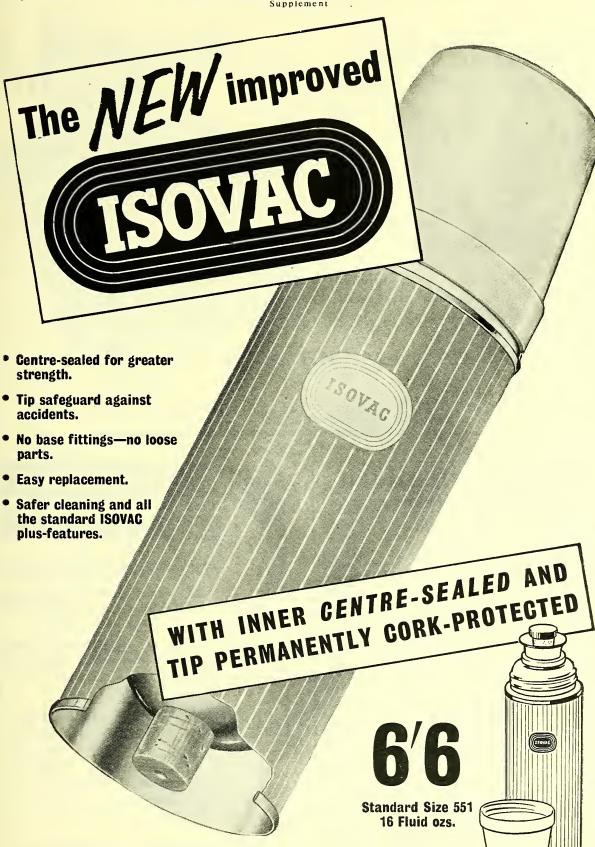
The machine illustrated is one of a range of variablespeed models which have now become an ESSENTIAL to the busy Pharmacist. Thousands of these machines are now giving satisfaction throughout the world.



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Tel: BARnet 6236 Bowes Park 5530



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31-35 WILSON STREET, LONDON, E.C.2. TELEPHONE: MONARCH 2651 (7 LINES). TELEGRAMS: ELREESONIA, AVE., LONDON

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BRAND OF NITROFURANTOIN

#### in urinary tract infections

Furadantin is an antibacterial compound for the oral treatment of urinary tract infections only. Therapeutic concentrations up to 400 mcg./ml. appear in the urine but blood and tissue concentrations are very small. The drug is effective against most organisms found in the urinary tract, including *Proteus* and *Aerobacter*, and some strains of *Pseudomonas*.

#### **Advantages**

- Oral administration
- Action confined to urinary tract
- Broad antibacterial spectrum
  - Only minor side-effects

Furadantin (brand of nitrofurantoin) is available as tablets of 50 mg. in bottles of 25 or 250. Further information on the use of Furadantin, or Diagnostic Tablets for bacterial sensitivity tests, will be sent on request.

#### DUNCAN, FLOCKHART & CO., LTD.

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Over 10d BOX PROFIT by ordering i dense 4/3 size. Bonus given on every dense (13) it pays to push this size.

Established 1767 In the Reign of King George Hi

C. & G. KEARSLEY LTB.
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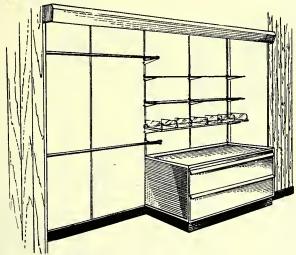
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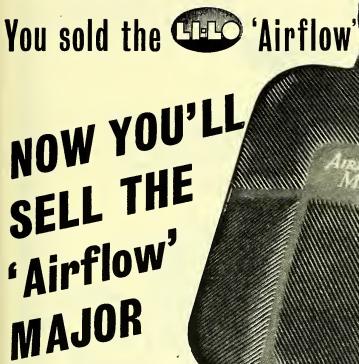
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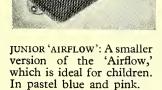
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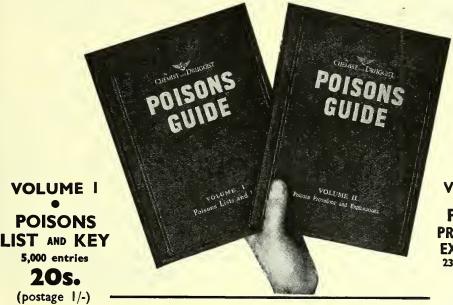
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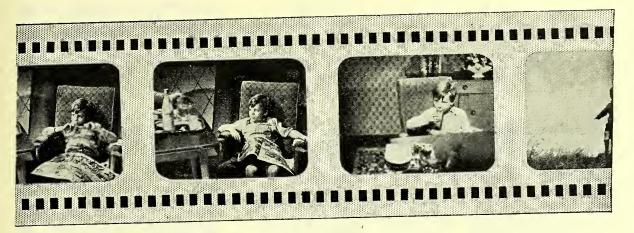
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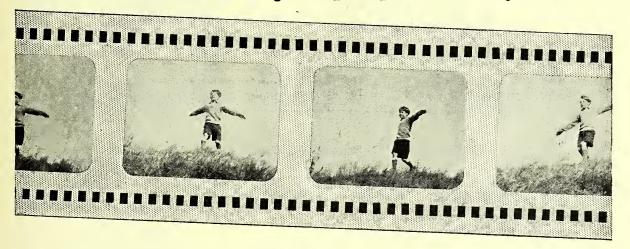
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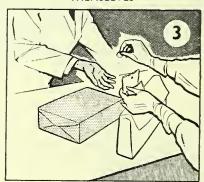
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C 256

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C 262

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Pharmaceutical qualification not essential but sound technical background and local residence necessary. No age limit, Remuneration by salary, expenses and commission, the positions being permanent and pensionable, Give full details in confidence to Sales Manager, Allied Laboratories, Ltd., 140 Park Lane, W.1.

C 5352

A COMPANY of international repute, the leader in its field, marketing nationally advertised specialities, requires a representative to call on retail and wholesale chemists in the area comprising East Lancashire, The position will be permanent and pensionable, Remuneration is by salary and commission and is above average Full expenses with car provided. Applicants, who must be between the ages of 25/40 and prepared to reside in the area appointed, should forward full details of past experience, which will be treated in strictest confidence, to PSM, Box CD811, LPE, 55 St. Martin's Lane, W.C.2.

A WELL-KNOWN COMPANY near London has a vacancy for a pharmacist as head of a production department. The post offers considerable scope for initiative, energy and management ability. Previous experience in the production of ethical products will be an advantage. Five-day week; contributory pension scheme. Salary according to qualifications and experience. Apply initially in writing to Box C 5378.

AYRTON, SAUNDERS & CO., LTD., require pharmacist for sterile products unit, interesting work under good conditions, 5-day week. Experience desirable but not essential. Full details of age, qualifications and experience to Technical Director, 34 Hanover Street, Liverpool, 1.

C. L. BENCARD, LTD., invite applications for representatives from experienced men for the County of Kent, which has been regularly worked. A car and full expenses are provided and there are bonus and pension schemes in operation. Apply in confidence giving full details of experience, to the Sales Manager, C. L. Bencard, Ltd., Park Royal, London, N.W.10. C 5325 C. L. BENCARD, LTD., invite applications for

B.PHARM, (Membership of the R.I.C. would be an additional advantage), not over 35 years of age, with experience in analytical work, is invited to apply for whole-time position of Control Chemist in London manufacturing pharmaceutical chemists' testing laboratory (nr. London Bridge), Commencing salary at the rate of £1,000 per annum with prospects of advancement, The position carries a contributory pension scheme and work is five days a week. The post is suitable only for an applicant desirous of establishing himself in what is intended to be a permanent position, Send full details of experience and qualifications to Box C 5370.

H. E. DANIEL, LTD., St. Bernard Works, London, S.E.19, suppliers of raw materials to the following trades, require a representative to call upon mineral water and confectionery manufacturers, perfumery and soap manufacturers, manufacturing chemists and wholesale druggists, in London and Home Counties, Experience desirable, Salary, commission, superannuation and car provided, Apply in confidence, with full details to the Managing Director.

For a man with widely varied experience in pharmacy, good at ferreting out technical information, and able to express hiniself in writing, there is a vacancy on the editorial staff of THE CHEMIST AND DRUGGIST, Apply to The Editor, 28 Essex Street, London, W.C.2. C 5303

EXPORT SALES MANAGER with good connections particularly in British Commonwealth and South America, required by pharmaceutical manufacturers in West London area, Duties will entail sales promotion of both proprietaries and ethicals. Supervision of sales and advertising. Excellent opportunity with unlimited scope for the "right man." Applications with full details of experience, education and salary required, etc., to Box C 5346.

FIRST CLASS REPRESENTATIVES required by firm of repute to carry nationally advertised range of hair preparations, Several territories vacant. Applicants should give full details of service with each, and average remuneration they earned during the last five years. Strictest confidence will be observed, Our staff is aware of this advertisement. Box C 5371.

FOR A NEWLY CREATED POST, a pharmacist is required aged 30/40. The post is concerned with the development of new pharmaceutical and allied products, and applicants should preferably have had experience in this field. Responsibilities would cover development, packaging, customer contact and liaison between sales and factory. Replies giving full details, education, qualifications, experience and age to Product Director, Ethicon Limited, Bankhead Avenue, Edinburgh, 11.

C. J. HEWLETT & SON, LTD., require pharmacist for the Watford factory to take control of the analytical and bacteriological laboratories, Previous industrial experience essential. Five-day week, Pension scheme, Apply in writing to the Technical Director, C. J. Hewlett & Son, Ltd., King George's Avenue, Watford, C5385

LABORATORY ASSISTANT required by manufacturing chemists, to assist works manager. Duties partly clerical. Five-day week, Apply Matthews & Wilson, Ltd., 6 & 8 Cole Street, London, S.E.1.

MANAGER required for chemical department export/import merchants, Sound knowledge chemical field essential. Box C 3818.

EADING FIRM manufacturing bulk and packed ladies' hair preparations rapidly expanding their sales organisation are seeking top-grade representatives with active connections amongst the trade, Fullest details in confidence to Box C 3817.

LONG-ESTABLISHED COMPANY seek full-time, experienced representative for Eire and Northern Ireland, who has first-class contacts with chemists, stores, and leading grocers. The company's products have a high reputation and are advertised in British national magazines, A substantial basic salary is offered, generous expenses, and a non-contributory pension scheme, Full details to Box C 5379.

MEDICAL DEPARTMENT EXECUTIVE. Prominent pharmaceutical house invite applications for the position of medical department executive. Duties include the training and supervision of medical propaganda staff, compiling and editing of medical literature, and the initiation of clinical trials, Medical qualifications an advantage but not essential if applicant has appropriate background, Applications which will be treated in the strictest confidence should give full details of qualifications, experience and indication of emoluments expected. Box C 5347,

MEDICAL REPRESENTATIVE required by well-known ethical house to take over established territory comprising Surrey, Sussex and part of Hampshire. Brighton resident preferred Previous experience of this work desirable but not essential. Good knowledge of pharmacy and car ownership necessary, Commensurate remuneration with pension and life assurance to successful applicant. Full details, in confidence, to Box C 5382.

MEDICAL REPRESENTATIVE required Yorkshire to contact doctors and chemists. Apply giving particulars of previous experience and some indication of salary required to Box C 5394.

MEDICAL REPRESENTATIVES required by London manufacturing chemists to call on doctors, dentists, hospitals and chemists. Experience of medical detailing an advantage but not essential if applicant has a good pharmaceutical background. Applications invited from pharmacists, 25 to 40 years of age, stating experience and salary required. Box C 264.

OPPORTUNITIES occur for pharmacists, aged 21-25, in the pharmaceutical division of a well-known firm of chemical manufacturers near London. The engagement is on the manufacturing and packaging of ethical products, with opportunity for experiment in production and control methods. Salary according to qualifications and experience, with prospects of advancement, Apply initially in writing to Box C 5334,

PHARMACIST required to supervise suture sterilisation in Suture Laboratories, Full details of experience to The Armour Laboratories (Armour & Company, Ltd.), Hampden Park, Eastbourne, Sussex. C 5381

PHARMACIST required by old-established manufacturing chemists in London, for production of toilet and pharmaceutical preparations. Salary will be commensurate with experience and ability. Applications stating age, qualifications, experience and salary expected to Box C 3713.

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PATCHOID, CREMARS

to whom all orders and enquiries should be addressed

#### -IMPORTANT-

Box Office numbers are intended exclusively for specific answers to particular advertise. ments. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded

#### Situations Vacant—Continued

SALES EXECUTIVE
ROUSSEL LABORATORIES wish to engage a field sales executive to assist the Sales Manager in the supervision of representatives. Qualities looked for are:

(a) Successful selling experience with pharmaceutical products, (b) Experience of, or potential for, training and controlling representatives in the field.

(c) Aptitude for sales correspondence and office routines, and (d) Age not more than 35.

Considerable importance is attached to this post which will be remunerated accordingly,

ingly.

Applications, which will be treated in strict confidence, should give fullest details of background and career to date and be addressed to the Sales Manager, Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10.

C 533

REPRESENTATIVE required for Northumberland, Durham, North and East Ridings of Yorks, by manufacturing and wholesale chemists, Salary, commission and expenses, Pension scheme, Car provided, Full details of experience, etc., to: H.S.D., Ayrton, Saulders & Co., Ltd., Hanover Street, Liverpool, C 5397
SALES MANAGER required, age under 40. Previous experience in this capacity essential. Send full details of experience to The Armour Laboratories, Hampden Park, Eastbourne, Sussex, C 5368

Sussex. C 5368
TABLET COATER required by manufacturing chemists for modern and well-equipped department, Experienced in white and coloured coatings, Five-day week. Canteen facilities, Apply Technical Director, C. J. Hewlett & Son, Ltd., King George's Avenue, Watford. C 5386

THE BRITISH DRUG HOUSES, LTD, Development Pharmacist
Applications are invited from young Pharmacist (preferably male) or graduates in pharmacy, and from students about to graduate, who are interested in pursuing a creative occupation in industry. The work will be mainly concerned with the formulation and development of new pharmaceutical products, Pension scheme and five-day week. week

Applications should be made in writing, Applications should be made in writing, giving details of age, qualifications, ctc., to Ref. RES/HAC, The Personnel Manager, The British Drug Houses, Ltd., Graham Street, London, N.1.

THE BRITISI DRUG HOUSES, LTD. Unqualified male assistant. Age 22-28 required to combine the duties of laboratory steward and technical assistant, Preference will be given to applicants with previous experience in retail pharmacy or industry, Experience in medical store work during National Service would be an advantage, Please send details of education, experience and present wages to Senior Personnel Officer, Graham Street, London, N.1, C 5396 WORKS MANAGER CHEMIST required by Matthews & Wilson, Ltd., Tablet Manufacturers, Cole Street, London, S.E.1, Must be experienced in formulation and control and planning of pill and tablet production, Apply giving age and experience, and stating salary required to the Works Director. C 5380

## AGENTS WANTED 17/6 for 36 words (min.) then 4d. per word Box 2/-

TRAVELLER or sole distributor wanted for beauty preparations. Those with connections to retail chemists or wholesalers essential, No objection to other lines being carried, Good commission, Write full details to Box C 5372.

AGENTS throughout the United Kingdom re-AGENTS throughout the United Kingdom required by company manufacturing a unique Dog-Candy product and accessory. The company's products are well established in the Pet-Food trade, but offer considerable scope to energetic agents calling on chemists, Write Box C 3757, stating territory covered, number of retail contacts, and time taken to cover area, Exclusive agencies will be considered.

M.A.A.—The Badge of a good manufacturers' agent, Manufacturers requiring reputable agents are invited to communicate with the Secretary. The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membership available to established agents only, Particulars supplied.

#### SITUATIONS WANTED 3/- for 18 words (min.) then 2d, per word.

#### LOCUMS SEEKING ENGAGEMENTS

HOSPITAL PHARMACIST, retail trained (36), with family, will holiday locum, etc., in return for London accommodation, Suggestions considered and answered. Box C 3823.

#### WHOLESALE

EXPERIENCED REPRESENTATIVE, available shortly, Wales territory, excellent record, pharmaceutical and commercial, joint representation of two firms considered, Box C 3822.

#### (OVERSEAS)

AUSTRALIAN PHARMACIST, 31, ex-serviceman, married, interests in Africa, seeks posi-tion as pharmacist, representative, or industry in Rhodesia, Nyasaland or adjacent British territories, Experienced in hospital and retail pharmacy, Excellent references. Box C 3815. al and retail Box C 3815.

#### **BUSINESS OPPORTUNITIES** 17/6 for 36 words (min.) then 4d. per word.

GREAT OPPORTUNITY, toilet preparations business, £425, Goodwill, formulas, plant, stock, list First-class buyers, showing profit, gross 150 per cent, Cheap to run, reasons for selling premises no longer available, 10 Carlton Road, Sidcup, Phone: Foo, 7067.

MANUFACTURING CHEMISTS invite enquiries for the manufacture of cake make-up, rouge and similar products, using customers own materials, etc. Box C 5384.

SILICONE RUBBER for extreme temperatures, frequent sterilisation and high standard production and research, Washers, bungs, bottle cap liners, tubing, seats for droppers and mouldings to customers' specifications, Esco (Rubber), Ltd., 34/36 Somerford Grove, London, N,16.

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ALL KINDS OF BOTTLES, JARS, SCREW ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair price for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued lines. Surplus and Redundant Stocks, Should you have anything for disposal, please send us samples and particulars, Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153 CHEMIST'S large glass jars purchased in pairs, sets or singly, Write Box 825, Gordon House, 75 Farringdon Street, London, E.C.4. C 5365

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

#### MISCELLANEOUS SALES

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100 BAYS of brand new adjustable steel shelving, 72 in, high by 34 in, wide by 12 in, deep, stove-enamelled bronze green, Sent knocked down—6 shelf bay—£3 15s, Sample delivered free, N. C. Brown, Ltd., Eagle Steelworks, Heywood, Lanes, C 5115

COSMETICS: Well-established manufacturers can undertake production to customers' specification of the following:—Powder, lipstick, rouse, compressed powder, creams, mascara, bath cubes, Large and small contracts. Columbia Products Co., Ltd., Devonshire Works, Dukes Avenue, London, W.4. Telephone: Chi. 4853.

MODERN CHEMIST SHOPFITTINGS, drug ranges, wall cases and fremeless sliding doors, display counters and showcases, all types of window fittings and display stands, D. Matthews & Son, Ltd., Complete Chemist Shop Fitters & Shop Front Builders, 14-16 Manchester Street, Liverpool.

PEGBOARD PANELS, screens, and pictures. Pegboard fittings for all articles. Lists and prices from Wesper, Ltd., 23 Station Street, Sittingbourne, Kent.

THE SMALLEST ROOM needs Jumbo crepe toilet rolls, 33/- gross. Carnos fine balance sulphate toilet roll, 66/- gross, Free delivered. Sea journey extra. Send 1/- for sample, rolls. Stock lists free on request. L. Frankenberg, Ltd., Manufacturers' Wholesale Distributors, 37 Houndsditch, London, E.C.3.

#### **EXPORT TRADE**

EXPORT. Manufacturers requiring reliable agents in South Africa and New Zealand should contact Export Trading Services, Ltd., 3 Cork Street, W.1. Phone: Reg. 7115. C 5065

#### TRADE MARKS

#### TRADE MARKS

The Trade Mark No. 682192 consisting of the word "BEREX" and registered in respect of word "BEREA and registered in respect was assigned on April 25, 1956, by Herbert Francis Cowan and Denis Hugh Love trading as Berex Pharmacal Company, of 46-48 Caledonia Road, Toronto, Canada, to Dolcin, Limited, of the same address, without the goodwill of the business in which it was then in use,

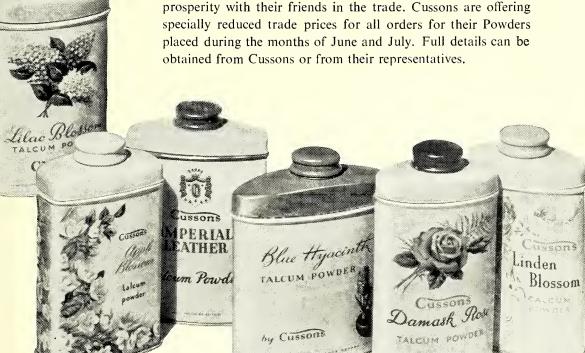
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THE DISPENSERS GUILD OF GREAT BRITAIN, 41 Connaught Square, London, W.2 (formerly The Guild of Dispensers), which aims at statutory recognition, invites new enquiries and reminds its members that annual subscriptions (10s, 6d.) are now due. Secretary, D. G. E. Bristowe, Rookery Road, Staines, Middlesex.

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